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You can read the recommendations in the user guide, the technical guide or the installation guide for JBL EON515XT. You'll find the answers to all your questions on the JBL EON515XT in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual JBL EON515XT
User guide JBL EON515XT
Operating instructions JBL EON515XT
Instructions for use JBL EON515XT
Instruction manual JBL EON515XT



515
XT

USER'S GUIDE



by HARMAN

Fr./Französisch, Deutsch, Español, Italiano, www.jblpro.com



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26 3 Section 1: Welcome To The Family Thank you for choosing JBL Professional EON® Series loudspeakers. Since the launch of the very first EON systems in 1995 they have proven to be the loudspeaker system that is all things to everyone and as such remain the best selling powered speaker in professional audio history; congratulations on your choice! You have now just invested in the next generation of EON, and like the previous versions remain the portable, practical, and powerful choice of industry professionals as well as amateur enthusiasts alike. While retaining the durability and quality of previous generations, the new EONs also offer a host of improvements over the previous models. First and foremost are higher-quality components such as transducers with Differential Drive® technology, which perform better while weighing less. The built-in amplifiers are more powerful, the design more portable and user-friendly, and the addition of mounting and flying points add up to an even more useful and flexible package.

In their quest to be 'everything for everybody', the EON Series loudspeakers offer unparalleled flexibility and scalability to provide a variety of solutions for every sound reinforcement need. There are five models in the series four full-range systems and a subwoofer. Three of the full-range models are powered and one passive. Why passive? A passive version offers the acoustic and physical features to those who just want to upgrade their speakers. With proper care your EON 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. 4 Before You Begin - Important Information Before using your EON® speaker system please review the following for important information on safety and protection of your investment in quality loudspeakers. 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 wide blade or the third prong is 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 the 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.

15. 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. Service Instruction in Owner's Manual: "CAUTION - THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO." 16. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle. 17. "WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE."

18. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment. 19. The mains plug of the power supply cord shall remain readily operable. 5 Section 2: Precautions The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated. "Dangerous Voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. @@@@A robust AC supply is necessary for maximum performance.

@@@@@@@@. If your speakers will be frequently moved, consider a padded carrying bag. · If your EON speakers have been subjected to prolonged exposure to extreme low temperatures, avoid subjecting them to heavy mechanical shock and warm the speakers up by playing at a low volume for one hour before playing at loud levels. · Keep the exterior of the speaker enclosure clean. Clean only with a dry cloth. · EON speakers are not intended for fixed installation in outdoor environments.

Moisture can damage the speaker cone and surround, cause corrosion of electrical contacts, and create an electrical shock hazard. Protect your speakers from moisture. Avoid exposing the speakers to direct moisture. Any electrically powered device can produce dangerous shock hazards when wet or exposed to moisture. Keep speakers out of extended or intense direct sunlight. The driver's integrity may be affected and finished surfaces will be degraded by long-term exposure to intense ultra-violet (UV) light. 6 THIS APPARATUS CONTAINS POTENTIALLY LETHAL VOLTAGES. TO PREVENT ELECTRIC SHOCK OR HAZARD, DO NOT REMOVE CHASSIS, INPUT MODULE OR AC INPUT COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Mounting / Suspending EON Speakers EON speakers are designed for portable applications in which the speakers will be stacked directly on the floor, stage, speaker stands, or a solid, stable platform.



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When placed on a smooth surface such as polished wood or linoleum, the speakers may move due to acoustical energy output. Precautions should be taken to assure that the speaker does not fall off the stage or table on which it is placed. Optional accessory items are available from JBL Professional and after-market suppliers to facilitate suspension and wall /ceiling mounting of EON speakers. Only those items recommended by JBL Professional should be used. When using these items, review all enclosed documentation and carefully follow all instructions and safety precautions. CAUTION: Suspension of EON speakers should be done by qualified persons following safe rigging standards and practices. @@@@Attachment of as been tested and found to comply with the limits for a Class A digital device, pursuant to part of the FCC Rules. @@@@. Increase the separation between the equipment and receiver. @@@@Refer to the Application Examples with EON515XT in Section 6.

2. Turn the INPUT 1, 2, and 3 controls fully counter-clockwise. 3. @@The MIC LED will illuminate when power is turned on. @@4. Set the EQ controls to the center position. 5. @@@@7. @@8. @@@@. Next, turn on the power switch.

Reverse this process when shutting down your system. 9. @@@@If you are using a microphone, turn the INPUT 3 control up slowly to avoid feedback. If you are uswn® Class-D 625 Watts (525 + 100) System Power Rating: Speaker Specification LF Driver: HF Driver: Coverage Pattern: Crossover Frequency: 1 x JBL 265F-1 380 mm (15") Differential Drive® integrated woofer with dual 2" voice coils 1 x JBL 2414H 37.5 mm (1.5") annular polymer diaphragm, neodymium compression driver 100° H x 60° V nominal 1.7 kHz Enclosure Material: Suspension / Mounting: Handles: Finish: Grille: Dimensions (H x W x D): Gross Weight: Polypropylene, multi-purpose main & monitor 36 mm pole socket with stabilizing screw, 5 x M10 suspension points One left/right side, one on top, with rubber grip Black Granite Powder coated perforated steel with acoustically transparent cloth backing. 673 mm x 406 mm x 368 mm (26.5" x 16" x 14.5") 24.

2 kg (53.5 lb) Block Diagram LOOP MIX OUT TREBLE HPF LEVEL 3 LINE MIC SUM INPUT 3 EQ HF LPF EQ COMPRESSOR LF MIC INPUT 2 LEVEL 2 INPUT 1 LEVEL 1 SIGNAL BASS OVERLOAD LED 11 Back Panel 12 Back Panel See Section 6: Application Example Using the Mix/Loop Function For details on how this mode may be used. 13 Back Panel 14 Section 5: Loudspeaker Placement and Suspension The following guidelines will help you achieve optimum sound wherever you use your EON® 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. @@@@Use more speakers in large or highly reverberant spaces.

@@@@Upright stance provides even coverage over a wide area. @@@@CAUTION: Do not suspend speaker from pull-back point. @@1. Remove suspension point caps 2. @@Your EON® can accept either type of input.

Balanced Lines In audio, a balanced line is a three-conductor system in which the two signal wires carry an equal, but opposite voltage with respect to the ground wire. The ground wire acts only as a shield and does not carry any audio signal current. Outside interference (such as RFI - Radio Frequency Interference) is either shielded from the internal signal conductor, or if it gets into the cable is cancelled out by the opposite signals at the receiving end. Balanced connections are preferred for any longer cable runs. Unbalanced Lines Unbalanced cable is a two-wire system where the shield (ground wire) acts as one of the current carrying signal conductors.

The center conductor enclosed by the shield is commonly known as the "hot" conductor. Unbalanced audio cables do not reject noise as well as balanced lines. Unbalanced lines are typical in home hi-fi type systems and on the outputs of electronic musical instruments. These work well if the distance between the components is short, the signal level is relatively high and all of the electronics used in the system are plugged into the same AC service. Unbalanced Sources to EON Powered Loudspeakers If you need to connect your EON speakers to an unbalanced source you have two options: · Use the LINE 1 and LINE 2 connectors. These inputs are balanced but will accept unbalanced inputs without the need for any special adapters. · Use an adapter or special cable Cables and Connectors Speakon® is a registered trademark of Neutrik AG. 22 Cables and Connectors (continued) 23 Section 8: Trouble Shooting Symptom No sound Likely Cause Speaker not connected to active AC power Power not switched on Speaker power cable is faulty or improperly connected. Blown fuse Signal source (mixer, instrument, etc.) is not sending.

What to do Verify that speaker is connected and that the circuit is on Switch on power and verify that power LED is on · Re-seat the power cable at both ends. · Substitute a known-good power cable · Check fuse and replace with same type "spare fuse in holder". · 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 · Disconnect and re-seat signal cables. · Replace suspected cable with a known-good cable The EON 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. · Reduce the output level of the source. · Turn down the level controls on the speaker. · Use additional EON speakers. · Reduce BASS or TREBLE Control Review the Owner's Manual for your mixer and adjust controls as needed. · Input sensitivity (gain) · Channel faders · Master faders Once this is done, review the instructions in the Quick Start section of this guide. · Make sure that the MIC/LINE switch is in the LINE (disengaged) position. · Reduce the level settings at speaker. Review the Owner's Manual for your mixer and adjust controls as needed. @@@@Disconnect or mute channels one at a time to isolate the problem.

@@Substitute a known-good cable for the suspected faulty cable. @@· Re-route audio cables away from AC power and lighting cables. · Use the balanced outputs (if available) of your mixer or source equipment to drive your EON speakers.



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· Use a "DI" (direct injection) box to convert your unbalanced equipment output to a balanced output. Reduce the INPUT level controls and increase the output level of your source devices.

@@Speaker comes on. @@@@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.jblproservice.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 25 Section 10: 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.

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