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You can read the recommendations in the user guide, the technical guide or the installation guide for JBL EON 210P. You'll find the answers to all your questions on the JBL EON 210P in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual JBL EON 210P
User guide JBL EON 210P
Operating instructions JBL EON 210P
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Instruction manual JBL EON 210P



EON 210P
PORTABLE PA
USER'S GUIDE



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Manual abstract:

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..... @@23 3 Section 1: Important 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. @@9. @@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. @@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. 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. 4 Care and Cleaning EON 210P systems may be cleaned with a dry cloth. Do not get 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. 5 Section 2: Precautions ! The EON 210P PA system 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 EON 210P PA system 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. Stand Mounting Safety Precautions The EON 210P speakers contain a 36 mm receptacle cup to allow mounting on tripod stands or on a pole over subwoofers.

When using stands or poles, be sure to observe the following precautions: · Check the stand or pole specification to be certain the device is designed to support the weight of the speaker. Observe all safety precautions specified by the manufacturer. · Always verify that the stand (or subwoofer/pole) is placed on a flat, level and stable surface and be sure to fully extend the legs of tripod type stands. Position the stand so that the legs do not present a trip hazard. · Route cables so that performers, production crew, and audience will not trip and topple the speakers over. · Inspect the stand (or pole and associated hardware) before each use and do not use equipment with worn, damaged or missing parts.

· Do not attempt to place more than one EON 210P series speaker on a stand or pole. · Always be cautious in windy, outdoor conditions. It may be necessary

to place additional weight (i.e. sandbags) on the base of the stand to improve stability.

Avoid attaching banners or similar items to any part of a speaker system. Such attachments could act as a sail and topple the system. · Unless you are confident that you can handle the weight of the speaker, ask another person to help you get it onto the tripod stand or pole. Hearing Damage, Prolonged Exposure To Excessive SPL The EON 210P system 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 90 dB.

WATCH FOR THESE SYMBOLS! 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 lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated "Dangerous Voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. **WARNING TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR**

6 Section 3: EON 210P PA System Declaration of Conformity This equipment complies with the EMC directive 89/336/EEC Modified by 92/31/EEC 93/68/EEC 98/13/EEC and LVD 73/23/EEC modified by 93/68/EEC This product is approved to safety standards: EN60065:2002 UL6500 7th Edition: 2003 UL 60065 - STANDARD FOR AUDIO, VIDEO AND SIMILAR ELECTRONIC APPARATUS - SAFETY REQUIREMENTS - Edition 7 - Revision Date 2007/12/11 CSA C22.2 NO 60065-03 - AUDIO, VIDEO AND SIMILAR ELECTRONIC APPARATUS SAFETY REQUIREMENTS - Edition 1 - Revision Date 2006/04/01 IEC 60065 - AUDIO, VIDEO AND SIMILAR ELECTRONIC APPARATUS -- SAFETY REQUIREMENTS - Edition 7.1 - Issue Date 2005/12/01 And EMC Standards EN55103-1 (E2) EN55103-2 (E2) CSA Compliance Notice CSA Certification Applies to Amplifier Module Only CSA Certified to operate only at 120V~ in Canada FCC Compliance Notice 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.



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CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. **NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 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 instruction manual, may cause harmful interference to radio communications. However there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to collect 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 7 Section 4: The EON 210P PA System Power Amplifier AC Power Requirements The EON 210P is equipped with a Crown® Class D power amplifier and loudspeaker specific DSP electronics and requires appropriate AC power. Before plugging the Mixer Module into an outlet ensure that it is able to provide appropriate AC power. A robust AC supply is necessary for maximum performance. If the supply is too weak the bass performance may be affected and if it sags (drops) too much the system may self-mute to protect itself. As soon as the appropriate AC supply is restored it will continue to operate. Plugging multiple systems into the same outlet and long extension cord runs may affect the AC supply to the system. ! **CAUTION** In compliance with safety agency criteria and proper system operation, it is critical that the system installer observe all electrical safety practices at all times and provide proper earth grounding for all AC Power connections.

Powering Up The main power switch is located on the side of the mixer module where the AC cable attaches to the mixer. @@@@Just slide the switch to the appropriate setting. @@@@The EON 210P is a self-contained, portable pa system featuring multiple input channels with individual tone controls, multiple digital effects and convenient output routing capabilities that allow the user to integrate the system into any number of audio environments. And with its lightweight and ergonomic design the EON 210P is perfect for situations where ease and portability are just as important as quality and flexibility. Included in the EON 210P package are: · 2 Speakers with detachable modules · 1 module contains the EON 210P powered mixer · 1 module is designed for storage of speaker cables and microphones · 1 pair of unshielded speaker cables or Strings E300993 37TY October 5th, 2010 Let's look at the "inputs" first: **AUDIO INPUTS** The EON 210P has 8 inputs: 4 mono inputs and 2 stereo inputs.

All of the inputs will route to the speakers and to the **MONITOR OUTPUT SECTION**. Rev F **MONO MIC/LINE INPUTS** Moving from left to right there are 4 identical input strips comprised of (from top to bottom) a "peak LED", a combination input control; that controls the overall output volume of the system and a 5 light "Peak LED Ladder" that gives you a visual display of how much power you are using (think of the speedometer on your car). @@@@There are four effects available on the EON 210P. @@@@**EFFECT BYPASS** This turns all effects off 2. **PLATE REVERB** Use with Vocals and Acoustic Instruments 3.

@@@@**CONNECTING A MICROPHONE:** a. Turn the "MASTER VOLUME" to "0". b. @. @d. @e. Set the "REVERB" to "0". f. @@@@g. @@@@b.

@@(1/4" phone or RCA depending on the output of the device you are trying to connect) c. If there is an output gain or volume control on the device, set that to "7". This level is a starting point but should get you enough output to drive the input of the EON 210P. d. Bring up the "5/6 VOLUME CONTROL" to the 5-7 range. e. Slowly bring up the MASTER VOLUME to the desired loudness. 8. **CONNECTING A PERSONAL MUSIC PLAYER TO THE 7/8 STEREO INPUT:** a. Turn down the "MASTER VOLUME" control.

b. Connect the output of the device to the "7/8" input of the EON 210P mixer using a 3.5 mm stereo "mini plug". c. If there is an output gain or volume control on the device, set that to "7".

This level is a starting point but should get you enough output to drive the input of the EON 210P. d. Slowly bring up the MASTER VOLUME to the desired loudness. 9. **USING THE MONITOR OUTPUTS:** You can connect these outputs to a variety of devices like a recording device, a powered sub-woofer, additional power amplifier and speakers or even another mixer.

a. Turn the "MONITOR OUTPUT VOLUME" control to "1". b. Connect the MONITOR OUTPUTS (EITHER THE 1/4" PHONE OR RCA) to the inputs of the device into which you want to plug the mixer. c. Set the input level of the external device according to the manufacturer instructions. d. Slowly bring up the "MONITOR OUTPUT VOLUME" to the desired loudness. 15 10. **STORING THE EON 210P** a.

Turn down the "MASTER VOLUME" control. b. Turn the mixer unit off. c. Disconnect the AC Power cable from the mixer and then unplug the cable from the wall outlet. d. Disconnect the speaker cables from the mixer and then disconnect the speaker cables from the speakers. e. Disconnect all other inputs (microphones, instruments or music players) from the mixer. f.

Return the cables to the storage module and secure the latch. g. To return the storage module or mixer module back to their "attached" position on the rear of the speakers simply reverse the process described in the "Getting Started" portion of the manual. (EX. 2) (1) Slide the module into the back of the speaker (2)

Gently press forward and snap the module into the latch (3) The module should be securely fastened to the speaker and ready for transport (Ex. 2) **CAUTION:** · The EON 210P was designed as a system and is to be used as such. Use only the EON 210P speakers provided with the system. Substituting different speakers could result in damage to the powered mixer and could void your warranty. The powered mixer will not function with speakers that have an impedance lower than 8 ohms. · Do not daisy chain the speakers! No more than one 8 ohm speaker should be used on each speaker output.

· The EON 210P utilizes sophisticated Digital Signal Processing that has been optimized for the EON 210P speakers. Substituting speakers may result in decreased performance.



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@@@ (19 lbs. for unit with powered mixer, 14 lbs. @@@@ There are two basic types of audio system interconnections for audio signals: **Balanced and Unbalanced.** **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 long 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. 18 Section 8: **Cables and Connectors** The standard cable for interconnection of microphone and line level signal in professional audio systems. - Microphone to mixer XLR/F to XLR/M Microphone Cable TRS (balanced) 1/4 inch phone jack to XLR/M For connecting balanced devices with 1/4 inch phone and maybe used interchangeably. For connections of instruments with unbalanced outputs to balanced XLR inputs. This cable is electrically identical to "TRS" (unbalanced) 1/4 inch phone and may be used interchangeably. Connects consumer audio products and some DJ mixer outputs to professional audio equipment inputs TRS (unbalanced) 1/4 inch phone jack to XLR/M TS (unbalanced) 1/4 inch phone jack to XLR/M XLR/M to RCA (phono) cable TRS 1/4 inch Phone jack to dual 1/4 inch Phone jack Splits a stereo output into separate left/right signals. 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. TRS 1/4 inch Phone jack to dual 1/4 inch Phone jack XLR/F to XLR/M audio ground lift Only with balanced in - and outputs XLT/F to XLR/M Audio Groud Lift (no connection) 19 Section 9: **Trouble Shooting Symptom Likely Cause No Power What to do** Make sure that the AC cord is properly seated into the AC receptacle both at the wall outlet and on the mixer. Make sure the AC switch is in the "ON" position. If you are using an "AC Strip" check to see that it is working properly. Make sure both the mixer's channel volume and master volume are turned up. Double check to see if the source volume is turned up. Check to see if the input to the mixer is properly seated. Volume's are turned down No sound Mechanical connections are loose @@ Your speaker cables may have been damaged. Inspect for any cuts or crimps and if found, replace the cables. If you are using a "Condenser" type microphone you will need to activate the "Phantom Power" switch for the microphone to work. If the "Peak LED Indicator" is flashing red or on constantly you may be overloading the input. On channels 1-4 turn the channel volume down and press the MIC/LINE switch. Slowly bring the volume up. If the distortion is gone but you don't have enough volume, turn up the master volume. @@ Turn down the MASTER VOLUME. @@@@ Try turning down the MASTER EFFECTS RETURN. @@@@ 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. Substitute a known-good cable for the suspected faulty cable. Try using a ground lift adaptor.

Connect all power cords to the same power strip. Try a shorter cable if possible, otherwise use a DI box to convert the unbalanced signal to a balanced signal and use the appropriate cabling. @@@@ Try a different set of headphones. Feedback Microphones are too close to the speakers MONITOR OUTPUT is turned down Headphone signal is weak Channel Input is too low Impedance mismatch 21 Section 10: **Contact Information Mailing Address: JBL Professional 8500 Balboa Blvd. 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 Product Registration: Register your product online at www.jblpro.com 22 Section 11: **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, PO.



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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. 23 Part Number: 445709-001 11-202010 .



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