

EON QNE Compact

BATTERY-POWER OF PORTABLE PA SYSTEM WITH BLUETO IN ALDIO STREAMING AND CONTROL



USER'S GUIDE



FCC ID: APIEONONECOM

Contents

Section 1: Important Safety Instructions	2		
Care & Cleaning	3		
Section 2: Precautions			
Section 3: EON ONE Compact System Declaration of Conformity	5		
Section 4: Introduction to the EON ONE Compact System	6		
Getting Started	6		
PA Basics	7		
Getting Acquainted with the EON ONE Compact Powered Mixer	7		
Audio Inputs	8		
Switching Modes & Editing Channel Parameters	8		
Phantom Power Disclaimer	9		
Bluetooth Input	10		
Audio Outputs	11		
USB Power Ports	11		
Replacing the Battery	12		
Section 6: Accessories	13		
Backpack	13		
Mounting Pole			
Section 7: System Specifications	14		
Section 8: Cables & Connectors	15		
Section 9: Contact Information	16		
Section 10: Warranty Information	17		

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. 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.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged 14. 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.
- Service Instruction in Owner's Manual: "CAUTION: THESE SERVICING INSTRUCTIONS ARE FOR USE BY 15. 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. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.
- 17. WARNING: DO NOT EXPOSE BATTERIES OR BATTERY PACK TO EXCESSIVE HEAT, SUCH AS THAT FROM OPEN FLAMES, DIRECT SUNSHINE, ETC.
- 18. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
- 19. "WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO **RAIN OR MOISTURE."**
- 20. 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.
- 21. WARNING: The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
- 22.



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



Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

- 24. No naked flame sources, such as lighted candles, should be placed on the apparatus.
- 25. For adequate ventilation, do not install this equipment in a confined or enclosed space, such as a book case or similar unit. Product ventilation should not be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains, etcetera.

CARE & CLEANING

EON ONE Compact 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.

Section 2: Precautions



The EON ONE Compact 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 ONE Compact 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.

Hearing Damage, Prolonged Exposure To Excessive SPL

The EON ONE Compact 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.



Section 3: EON ONE Compact System Declaration of Conformity

This equipment complies with the EMC directive 89/336/EEC Modified by 92/31/EEC 93/68/EEC 93/68/EEC 98/13/EEC and LVD 73/23/EEC modified by 93/68/EEC

CE

This product meets safety standards:

EN60065:2002

UL6500 7th Edition: 2003

UL 60065 - STANDARD FOR AUDIO, VIDEO AND SIMILAR ELECTRONIC APPARATUS - SAFETY EQUIREMENTS - 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)

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 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;
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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.

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 B 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
- FCC RADIATION EXPOSURE STATEMENT

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

Section 4: Introduction to the EON ONE Compact System

Thank you for choosing the JBL EON ONE Compact. The EON ONE Compact is a battery-powered, ultra-portable, all-in-one PA system featuring rechargeable battery power, Bluetooth® audio streaming and control, and a 4-channel mixer with individual tone controls, ducking, and reverb. With an easy-to-carry, lightweight design and professional-grade audio quality, the EON ONE Compact provides a versatile PA system that is perfect for situations where ease and portability are just as important as sonic quality.

The following items are included in the EON ONE Compact package:

- 1 EON ONE Compact System
- 1 Power cable
- · Quick Start Guide

GETTING STARTED

- 1. Remove the EON ONE Compact system from the carton.
- Connect the power cord to the power receptacle to charge the unit. The BATTERY LEVEL meter will illuminate in sequence from bottom to top, indicating the unit is charging. The unit is charged when the BATTERY LEVEL meter is fully illuminated when powered on or off.
- 3. Turn the MASTER VOLUME control all the way to the left before connecting any inputs.
- 4. Connect your devices to the EON ONE Compact's input jacks.
- 5. Turn on the POWER switch. The POWER switch and the POWER LED on the front of the speaker will illuminate.
- 6. Select a channel using the CHANNEL SELECT button. Note that the CHANNEL SELECT LEDs will light white when signal is detected.
- 7. Set the channel's GAIN control to 12 o'clock.
- 8. Slowly turn the MASTER VOLUME control to the right until the desired volume is reached.
- 9. Adjust the TREBLE, BASS, and REVERB controls to taste for the selected channel.
- 10. Using the CH SELECT button, select the next channel and adjust the GAIN, TREBLE, BASS, and REVERB controls as previously described. Repeat for any remaining channels until the desired mix is achieved.
- 11. To connect a device to Bluetooth for audio streaming, turn on Bluetooth on your source device.
- 12. Press the Bluetooth button on the EON ONE Compact. The LED will blink when the EON ONE Compact is in pairing mode.
- 13. Find the JBL EON ONE Compact on your Bluetooth device and select it.
- 14. To control the EON ONE Compact via Bluetooth, visit www.jblpro.com/eononecompact to download the app. The app is also available in the iTunes® store and Google Play™ store.
- 15. To engage Mix Mode, hold down the CH SELECT button for 2 seconds. All CH SELECT LEDs will light.
- 16. Mix Mode is now engaged. The four rotary controls (1-4) now control the gain of each respective channel.

PA BASICS

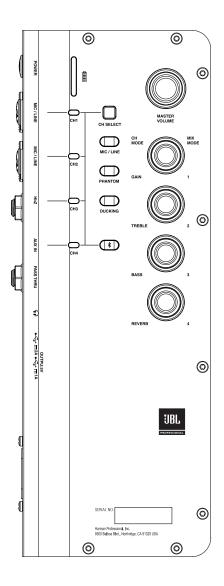
A mixing board is actually a very simple device that takes the audio input signals (from the input channels) and "mixes" them to the outputs. The mixing board controls will typically enable the user to blend the input channel signal levels, affect their tone, and adjust each channel's reverb level. The signal is then fed from the mixing board to the amplifiers and on to the speakers. The EON ONE Compact is a self-contained PA system, which includes a mixing board, amplifiers, and speakers.

GETTING ACQUAINTED WITH THE EON ONE COMPACT POWERED MIXER

The powered digital mixer section of the EON ONE Compact houses the mixing board and power amplifier. Here, all of the microphones, musical instruments, and external sound sources (such as MP3 players, CD players, or Bluetooth audio sources) can be connected.

The PASS THRU output can be used to connect multiple EON ONE Compact loudspeakers together for increased sound output or monitoring.





Let's take a look at the audio input channels next.

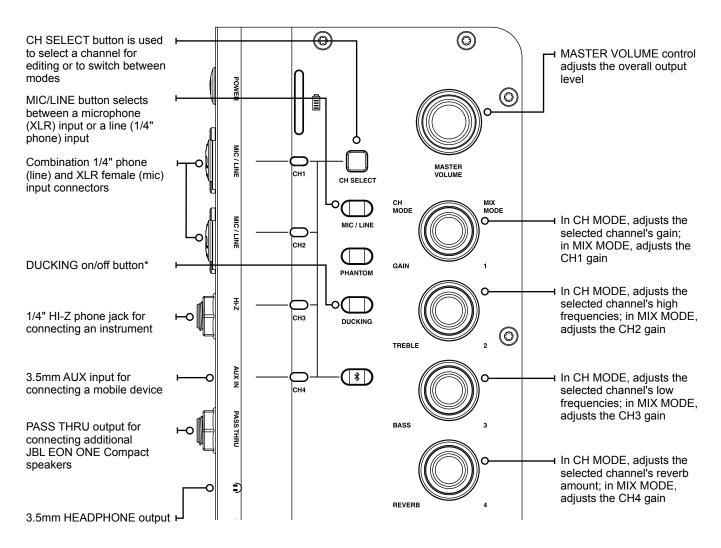
AUDIO INPUTS

The EON ONE Compact has four inputs: two mono MIC/LINE inputs on XLR combo jacks, one dedicated 1/4" HI-Z input for direct connection of an instrument (such as an acoustic guitar), and one 3.5mm AUX input, which is summed with the Bluetooth audio streaming input. All of the inputs are routed to the speaker, HEADPHONE jack, and PASS THRU output jack.

If using a condenser microphone, MIC/LINE 1 must be used and phantom power must be enabled. See **"Phantom Power Disclaimer" on page 9** for important information on using phantom power.

SWITCHING MODES & EDITING CHANNEL PARAMETERS

The EON ONE Compact can operate in one of two different modes: CHANNEL MODE or MIX MODE. The mode can be selected by pressing and holding the CH SELECT button for 2 seconds. When in CHANNEL MODE, pressing the CH SELECT button will select the channel to edit, indicated by the CH1-CH4 LEDs. Once a channel is selected, adjusting a parameter will affect the selected channel. In MIX MODE (CH1-CH4 LEDs lit) the four rotary controls (1-4) can be used to adjust each channel's gain respectively for quick adjustment of mix levels.

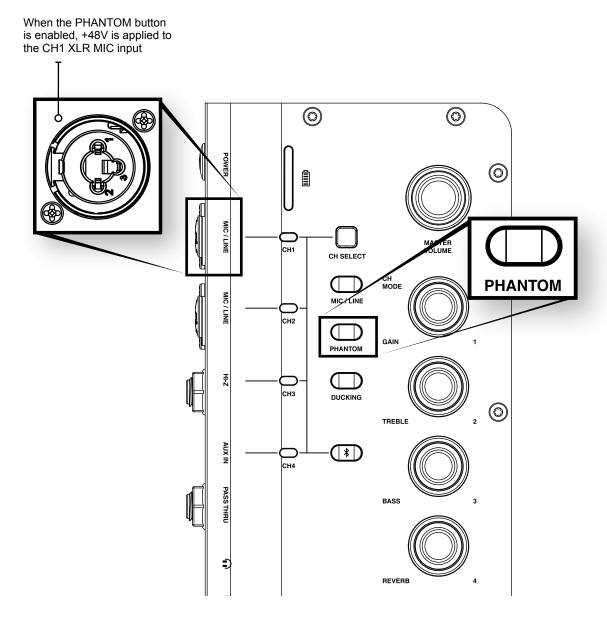


*NOTE: When the DUCKING button is enabled, channels 1 and 2 provide the sidechain signal for the ducker, which will automatically attenuate the channel 4 (AUX and Bluetooth) signal levels whenever signal is present on either of the MIC inputs. This feature is ideal for ducking playback music in presentation and instruction applications.

PHANTOM POWER DISCLAIMER

When using condenser microphones, phantom power is required to be present at the contacts of the microphone (XLR) connector for the microphone to operate correctly. When phantom power is enabled in the EON ONE Compact, it is applied to the CH1 XLR MIC input only.

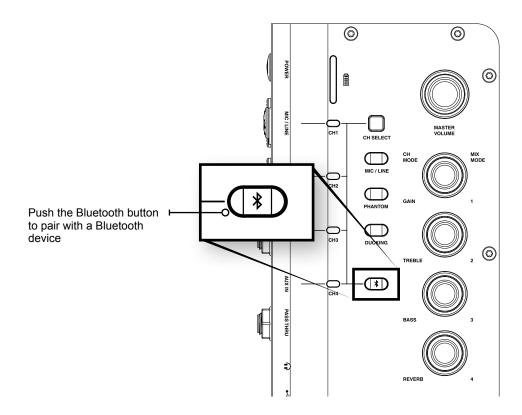
WARNING! To prevent damage to the EON ONE Compact or external devices when using a condenser microphone, always turn down all EON ONE Compact MASTER VOLUME controls and ensure the PHANTOM button is off before connecting the microphone. Once the condenser microphone has been connected, enable the PHANTOM button, then raise the MASTER VOLUME controls to the desired levels.



WARNING! Do not connect any unbalanced sources to the CH1 XLR MIC input when phantom power is enabled. Doing so may damage the connected device due to the phantom power voltage on pins 2 and 3 of the XLR connector.

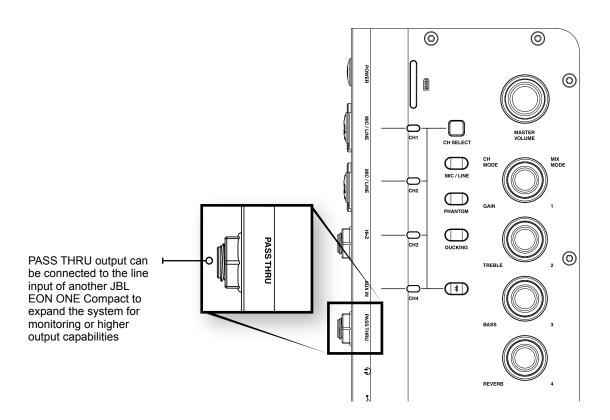
BLUETOOTH INPUT

The EON ONE Compact comes equipped with the ability to stream Bluetooth audio for music playback or backing tracks. To connect a Bluetooth device, first enable Bluetooth on your device. Press the BLUETOOTH button on the EON ONE Compact. Select "EON ONE Compact" from the source device to complete the pairing. The level of the Bluetooth device relative to other source channels can be controlled from the Bluetooth device.



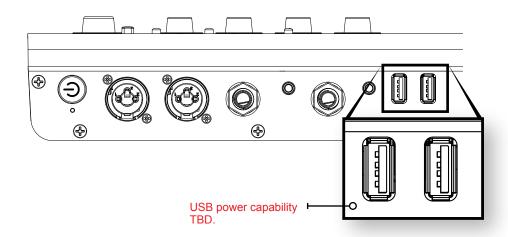
AUDIO OUTPUTS

The EON ONE Compact provides a 1/4" PASS THRU output for connecting to additional EON ONE Compact loudspeakers. A 3.5mm (1/8") HEADPHONE output is also provided for additional monitoring options.



USB POWER PORTS

These ports can be used to charge a Bluetooth device or other portable music playback device during use. One port provides 1A for low-amperage devices and the other provides 2A for USB devices requiring higher current.



REPLACING THE BATTERY

- 1. Unscrew the single screw on the battery compartment cover.
- 2. Pull the battery compartment cover off.
- 3. Remove the battery.
- 4. Replace with the same battery only.
- 5. Place the battery compartment over the battery and reapply screw.



Section 6: Accessories

BACKPACK

The optional backpack is available for effortless transport of an EON ONE Compact system.



MOUNTING POLE

The 'place JBL pole model here' is available for securely mounting an EON ONE Compact system.



Visit <u>jblpro.com</u> or contact your local JBL Pro dealer for more information on JBL accessories.

Section 7: System Specifications

System System Type: Battery-operated portable line array with powered mixer

Maximum SPL Output: 118 dB peak system output (pink noise)

Frequency Range (-10dB): 37.5Hz – 18.5kHz Frequency Response (-3dB): 45Hz – 18kHz

AC input: 100 – 120 VAC, 50/60Hz; 220 – 240 VAC, 50/60Hz

USB Power Port: Supplies 500mA

Battery Type: Extended-life lithium-ion

Charge Time: 5 hours

Run Time: Up to 6 hours

Amplifier Design: Class D

System Power Rating: 250W LF/HF

Mixer Input Connectors: 6 inputs (4 x mono mic/line, 1 x stereo)

Channels: 1-4: XLR / 1/4" combo connectors (XLR = mic-level input, 1/4" = line-level input)

(Enabling the CH3+CH4 HI-Z button switches 1/4" inputs on channels 3-4 to accept high-

impedance signals from instruments.)

5-6: 3.5mm stereo jack or stereo RCA connectors

Input Impedance: Ch 1-4 combo XLR: 40 K Ohms balanced

Ch 1-2 combo TRS: 40 K Ohms balanced

Ch 3-4 combo TRS (CH3+CH4 HI-Z button disabled): 40 K Ohms balanced Ch 3-4 combo TRS (CH3+CH4 HI-Z button enabled): 40 K Ohms unbalanced

Ch 5-6 RCA: 5 K Ohms unbalanced Ch 5-6 3.5mm: 10 K Ohms unbalanced

Phantom Power: 48V (CH1-4 XLR inputs)

Bluetooth: 2-channel Bluetooth audio input streaming (stereo signal is fed to the MONITOR OUT

jacks while mono-summed signal is fed to the line array speakers)

Output Connectors: 3 outputs (1 x stereo RCA monitor output, 1 x mono pass thru output)

Output Impedance: RCA monitor outputs: 100 Ohms unbalanced

XLR pass thru output: 37 Ohms balanced

Signal Indicators: Limit: Yellow LED indicates limiter active condition

EQ: Individual channel Bass and Treble controls, center detent, +/-12 dB cut and boost

System Limiter: On-board DSP limiting and tuning

Speaker LF Driver: 1 x 8" (203.2mm) woofer

HF Driver: 6 x 2" (50.8mm) drivers

Coverage Pattern: 80° x 60° (H x V)
Enclosure: Polypropylene

Grille: Powder-coated perforated steel

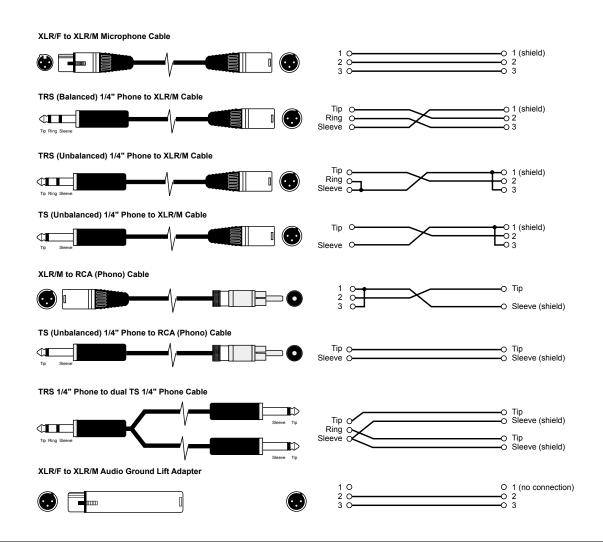
Dimensions (D x W x H)

Unit Dimensions: 15.8" x 10.5" x 23.4" (401mm x 266mm x 594mm)
Packaged Dimensions: 16.6" x 21.3" x 30.4" (421mm x 541mm x 772mm)

Net Weight of System: 37.5 lbs (17.0 kg)

Section 8: Cables & Connectors

XLR/F to XLR/M microphone cable	The standard cable for interconnection of microphone and line-level signals in professional audio systems. Example: Microphone to mixer.	
TRS (balanced) 1/4" phone to XLR/M cable	For connecting balanced devices with 1/4" phone; may be used interchangeably.	
TRS (unbalanced) 1/4" phone to XLR/M cable	For connecting instruments with unbalanced outputs to balanced XLR inputs.	
TS (unbalanced) 1/4" phone to XLR/M cable	This cable is electrically identical to "TRS" (unbalanced) 1/4" 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.	
TS (unbalanced) 1/4" phone to RCA (phono) cable	Connects an unbalanced 1/4" output to an RCA input.	
TRS 1/4" phone to dual 1/4" phone cable	Splits a stereo output into separate left/right signals. Also used for connecting signal processors to mixer insert jacks.	
XLR/F to XLR/M audio ground lift adapter	Used for breaking ground loops between interconnected devices — works with balanced inputs and outputs only.	



Section 9: 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

Section 10: Warranty Information

The JBL EON ONE Compact system is warranted for three 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. 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.



EON ONE Compact User's Guide Rev A

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