

FEDERAL COMMUNICATIONS COMMISSION AND INDUSTRY CANADA RADIO FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

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

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

FCC REQUIREMENTS FOR TELEPHONE-LINE EQUIPMENT

- 1. The Federal Communications Commission (FCC) has established rules which permit this device to be directly connected to the telephone network with standardized jacks. This equipment should not be used on party lines or coin lines.
- 2. If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until the repair has been made. If this is not done, the telephone company may temporarily disconnect service.
- 3. If you have problems with your telephone equipment after installing this device, disconnect this device from the line to see if it is causing the problem. If it is, contact your supplier or an authorized agent.
- 4. The telephone company may make changes in its technical operations and procedures. If any such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes.
- 5. If the telephone company requests information on what equipment is connected to their lines, inform them of:
- a. The telephone number that this unit is connected to.
- b. The ringer equivalence number.
- c. The USOC jack required: RJ-11C.
- d. The FCC registration number.

Items (b) and (d) can be found on the unit's FCC label. The ringer equivalence number (REN) is used to determine how many devices can be connected to your telephone line. In most areas, the sum of the RENs of all devices on any one line should not exceed five (5.0). If too many devices are attached, they may not ring properly.

6. In the event of an equipment malfunction, all repairs should be performed by your supplier or an authorized agent. It is the responsibility of users requiring service to report the need for service to the supplier or to an authorized agent.

CERTIFICATION NOTICE FOR EQUIPMENT USED IN CANADA

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications-network protective, operation, and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single-line individual service may be extended by means of a certified connector assembly (extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility—in this case, your supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION:

Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The LOAD NUMBER (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices, subject only to the requirement that the total of the load numbers of all the devices does not exceed 100.

NORMAS OFICIALES MEXICANAS (NOM) ELECTRICAL SAFETY STATEMENT

INSTRUCCIONES DE SEGURIDAD

- Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
- 2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
- 3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
- 4. Todas las instrucciones de operación y uso deben ser seguidas.
- 5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc..
- El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.

- 7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
- 8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
- 9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
- 10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
- 11. El aparato eléctrico deberá ser connectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
- 12. Precaución debe ser tomada de tal manera que la tierra fisica y la polarización del equipo no sea eliminada.
- 13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
- 14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
- 15. En caso de existir, una antena externa deberá ser localizada lejos de las lineas de energia.
- 16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.

TRADITIONAL IN-THE-EAR HEADSET

- 17. Cuidado debe ser tomado de tal manera que objectos liquidos no sean derramados sobre la cubierta u orificios de ventilación.
- 18. Servicio por personal calificado deberá ser provisto cuando:
- A: El cable de poder o el contacto ha sido dañado; u
- B: Objectos han caído o líquido ha sido derramado dentro del aparato; o
- C: El aparato ha sido expuesto a la lluvia; o
- D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
- E: El aparato ha sido tirado o su cubierta ha sido dañada.

TRADEMARKS USED IN THIS MANUAL

UL® is a registered trademark of Underwriters Laboratories Incorporated.

Any other trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.

TRADITIONAL IN-THE-EAR HEADSET

Contents

1. Specifications	0
2. Introduction 2.1 Description. 2.2 About this Guide 2.3 Components.	10
2.1 Description	
2.2 About this Guide	10
2.3 Components	10
3. Installation	
3.1 Eartin Installation	11
3.1.1 Wearing	11
3.1.2 Changing Ears.	11
3.2 Microphone Positioning	12
3.3 Clothing Clip	12
3.3 Clothing Clip	13
4. Maintenance	14

1. Specifications

Transmit:

Frequency Response—300 to 3,000 Hz

Microphone—Noise canceling electret

Current Consumption— $250~\mu a~@~1.3~V~(DC)$

Distortion—Less than 5%

Receive:

Frequency Response—300 to 3,300 Hz

Input Impedance—300 ohms (typical)

Speaker—Magnetic

Automatic Gain Control (AGC)—Threshold level with amplifier: -41 dBV with an input at 1 kHz

Volume Control—18 dB (typical)

Maximum Output—114 dB spl peak unit

General:

Compliance—UL® 1459; FCC Part 68; OSHA Part 1910, Subpart S; CSA C22.2 No. 225-M90

Operating Voltage—1.5 to 10 V (DC)

Weight—1.04 oz. (29.8 g)

2. Introduction

2.1 Description

High-quality sound in a classic headset design is yours with the Traditional In-the-Ear Headset from Black Box. It provides great fit, exceptional comfort, and good stability.

Choose from three ear tiplet sizes in foam or latex.

2.2 About this Guide

If, after reviewing this guide, you have any questions about the Traditional In-the-Ear Headset, please call Black Box Technical Support at 724-746-5500.

2.3 Components

1. Noise Canceling Microphone

- 2. Flexible Microphone Boom Arm
- 3. Earhook
- 4. Adjustable Lobe Hinge
- 5. Eartip Connector Tube
- 6. Clothing Clip
- 7. Quick Disconnect
- 8. Foam Ear Tiplets
- 9. Latex Eartips

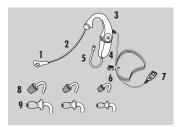


Figure 2-1. Components.

3. Installation

3.1 Eartip Installation

The Traditional In-the-Ear Headset can be fitted with a choice of eartips and eartip sizes. Three sizes each of soft latex eartips, for noisy environments, and exclusive foam Ear Tiplets, for moderate noise environments are provided. Select a size that fits comfortably in the ear canal opening. Never use an eartip that can be inserted into the ear canal or one that is smaller than that which fits comfortably into the ear canal opening.

To install an eartip, use a twisting motion to slide the eartip tube onto the headset connector (see Figure 3-1). Your headset is now ready to wear.

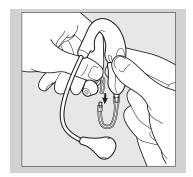


Figure 3-1. Tube Assembly.

3.1.1 WEARING

To wear the Traditional In-the-Ear Headset, pivot the earhook behind your ear so that the saddle of the hook rests on the top of your ear. With your thumb, close the ear lobe hinge until it is snug, secure and comfortable to wear, but not tight on your ear (see Figure 3-2). Finally, insert the eartip into your ear canal.



Figure 3-2. Headset Wearing.

Refer to the *Microphone Positioning* section (Section 3.2) for additional information.

3.1.2 CHANGING EARS

To change from one ear to the other, rotate the microphone boom 180° so that the side of the microphone marked with an F is facing towards you. Also rotate the eartip tube 180° so that it

comfortably rests in the outer ear (see Figure 3-3).

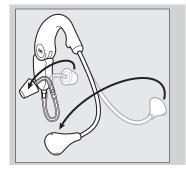


Figure 3-3. Changing Ears.

CAUTION

Do not force the microphone boom beyond the built in stops!

3.2 Microphone Positioning

To take advantage of the noise canceling qualities of the microphone, position the Traditional In-the-Ear Headset with the flat side of the

microphone, marked with an F, facing you. Adjust the microphone boom so that the microphone is approximately one finger width away from your lower lip (see Figure 3-4).

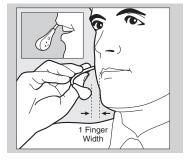


Figure 3-4. Microphone Positioning.

The Traditional In-the-Ear Headset has a flexible boom that can be reshaped until the microphone is correctly positioned in front of your mouth. One hand should grasp and steady the receiver end of the boom. The other hand can then flex the boom (see Figure 3-5).

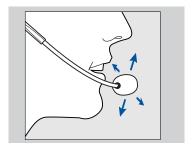


Figure 3-5. Flexible Boom Position.

CAUTION

Never forcefully rotate the microphone boom past its stop point in the receiver assembly!

3.3 Clothing Clip

The clothing clip should be fastened for comfortable wearing (see Figure 3-6).

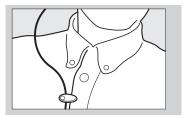


Figure 3-6. Clothing Clip.

The clothing clip is designed to prevent the weight of the cord from dislodging the headset. Position the clip conveniently on your clothing. To reduce excess slack, reposition the clip by sliding it up and down the cord.

3.4 Connecting to Your Telephone

An amplifier is needed to connect the headset to the telephone or telephone system. The headset is equipped with a Quick Disconnect plug which mates to a Quick Disconnect jack on the amplifier. Follow the instructions supplied with the amplifier to connect the headset and amplifier to your telephone or telephone system (see Figure 3-7).

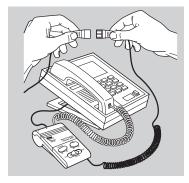


Figure 3-7. Amplified Configuration.

Disconnecting at the Quick
Disconnect allows you to move
around without having to remove
your headset. If you are on a call,
disconnecting at the Quick
Disconnect effectively puts the
other party on hold until you
return.

4. Maintenance

The foam covers on the receiver and microphone can be washed in mild soap and water. Replacement covers are available from Black Box. Call Technical Support at 724-746-5500 for details.

Cautionary Notes to Computer Users

When using any headset with a computer, take care in dry or low-humidity environments to protect the user from electrostatic discharge from the monitor (CRT). Computer monitors can induce a substantial electrostatic charge when turned on or off, or when there is a power failure, and the resulting electrostatic discharge can be passed through the headset to ground.

A user in close proximity to or touching the computer may feel a common "shock" sensation, similar to touching a doorknob after walking across a carpet, causing no harm to the user. This discharge is entirely due to the computer monitor; the headset is merely the shortest path to ground.

To minimize the possibility of electrostatic discharge through the headset, you can:

- Use a grounded screen in front of the monitor.
- Use static-dissipative wrist straps.
- Increase the relative humidity in the room to 60% or more.

- Install static-dissipative carpets or floor coverings (anti-static sprays can be helpful).
- Remove the headset before turning the computer on or off.

The Traditional In-the-Ear Headset meets all OSHA, UL, FCC and CSA standards.

5. Troubleshooting

5.1 Calling Black Box

If you determine that your Traditional In-the-Ear Headset is malfunctioning, do not attempt to alter or repair the unit. It contains no user-serviceable parts. Contact Black Box at 724-746-5500.

Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description, including:

- the nature and duration of the problem.
- when the problem occurs.
- the components involved in the problem.

 any particular application that, when used, appears to create the problem or make it worse.

5.2 Shipping and Packaging

If you need to transport or ship your Traditional In-the-Ear Headset:

- Package it carefully. We recommend that you use the original container.
- If you are shipping the Traditional In-the-Ear Headset for repair, make sure you include everything that came in the original package. Before you ship, contact Black Box to get a Return Materials Authorization (RMA) number.



CUSTOMER SUPPORT INFORMATION

Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500)
FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746
Mailing address: Black Box Corporation, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com
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