

fidelity

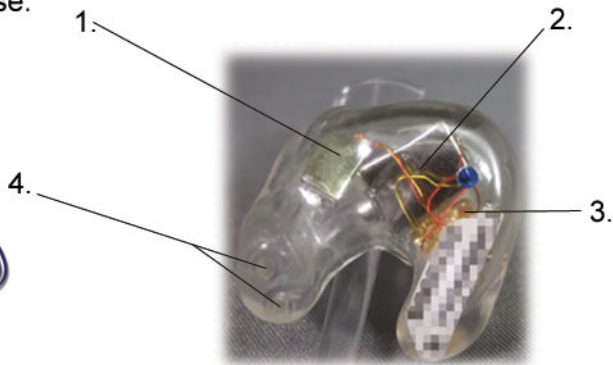
Custom Earphones



Fidelity Duals Owners Manual

Dual Driver Performance

1. High-Frequency Driver: Balanced amature tweeter for clear and crisp high frequency response.
2. Low-Frequency Driver: Balanced amature woofer for rich and accurate low-end response.
3. Internal Crossover: Passive crossover routes audio signal to tweeter and woofer without adding EQ irregularity.
4. Audio Ports: Acoustically-engineered tubing and ports shape the frequency response.



Technical Specifications

DRIVERS: Dual balanced armatures (Tweeter/Woofer)

FREQUENCY RESPONSE: 20Hz-18KHz

SENSITIVITY (at 1kHz): ~126 dB/mW

IMPEDANCE: 22 ohms

ISOLATION: 25-28 dB

MAX INPUT POWER: 150mW

DISTORTION: Less than 0.3%

CORD LENGTH: 50 inches

NET WEIGHT: ~2 oz.(varies with ear size)

INPUT CONNECTOR: Gold-plated 3.5mm phone, Stereo

STANDARD ACCESSORIES: Pelican 1010 Carrying Case
Cleaning Tool



Wearing Fidelity Custom Earphones

Fidelity Custom Earphones 360 degree rotating connectors allow for our product to be worn up and over the ear in the traditional in-ear method.



or



Down the front in the contemporary media player style.

Inserting Fidelity Custom Earphones

Insert the earphones into the ear canal, and slightly twist them down and forward until you feel the earphone seal into the ear canal.



Antihelix



Once in the ear, be sure that they are seated behind the Antihelix(upper flap) of the outer ear.



Cleaning Your Earphones

Gently insert the wax removal loop into the port, and twist slowly to pull out the wax inside. Be careful not to damage port tubing by using too much force.



After removing any internal wax buildup, clean the external parts of the earphones with rubbing alcohol and a soft cloth or with an alcohol prep swab. Be careful not to allow any liquid into the ports as this may damage the drivers.

Protecting Your Hearing

Listening to audio at excessive sound levels can cause permanent hearing damage. We strongly recommend that you use as low a volume as possible.

Noise induced hearing loss (NIHL) is a function of three factors: Exposure Time, Average noise level and Peak level of very loud sounds, and is measured under the assumption of no exposure to levels over 85 dB the rest of the day.

The following guidelines are established by OSHA (Occupational Safety and Health Administration) and the more conservative EE (Equal Energy) approach.

Db SPL	85	88	90	94	95	97	100	105	110	115	120
OSHA			8hr		4hr	3hr	2hr	1hr	30min	15min	7.5min
EE	8hr	4hr		1hr		30min		15min			

No two individuals have exactly the same hearing sensitivity, and any measure is based on an "Average" person. Some people may be more susceptible to hearing loss. We strongly recommend using as low a volume as possible.

Fidelity Custom Earphones can significantly reduce ambient sound levels by around 25dB when worn properly. As a result, it can reduce the sound level to 85dB from a normal stage volume of 110 dB. If Fidelity's are pushed to replicate the stage volume, the benefits of Fidelity Custom Earphones on protecting from hearing loss will be limited.

Using Fidelity Custom Earphones

Do not use Fidelity Custom Earphones when a failure to hear ambient noises could be hazardous, such as while operating vehicles or heavy machinery, while bicycling, jogging or walking near traffic.

Prior to inserting Fidelity Custom Earphones, be sure to inspect them for foreign debris in the ports and for any breakage that may cause cuts or abrasions to the ear.

When inserting or removing Fidelity Custom Earphones, please twist them in or out slowly.

Do not attempt to insert Fidelity Custom Earphones if you have swelling in your ear canal. This may cause them to become lodged and you will be unable to remove them.

While using Fidelity Custom Earphones, make sure the volume level is proper, and will not damage your hearing. Ringing or humming in the ear (tinitis) may be a symptom of excessive sound levels.



Caring For Your Fidelity Earphones

Avoid dropping or hard impacts.

Always store Fidelity Custom Earphones in the provided case and keep them away from water or dusty environments.

Do not expose Fidelity Custom Earphones to extreme temperatures.

Do not allow the cable to become a trip or snag hazard where it may be pulled from the plug or the rotating connectors.

Never use any other tool to probe the ports except the wax removal loop that is included.

When cleaning Fidelity Custom Earphones, you may use a mild anti-septic to avoid infection.





<http://www.fidelitycustomearphones.com>

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