Audiometers should be regularly verified to help ensure accurate patient testing, and the 3M Bio-Acoustic Simulator series offers customers a flexible and simple solution for performing this procedure. They are highly reliable, durable devices that save time and money by eliminating the need for a test subject to help you perform a daily biological check of your audiometer.

The BA-202, BA-202-25 and BA-202-27 can be used with manual, automatic and microprocessor audiometers. They can be powered by battery or optional power adaptor, whichever is most convenient for your application. Two color coded LEDs help ensure that the earphone connections are fastened properly. The earphone cups are intended to be used with TDH-39, TDH-49 or TDH-50 earphones and can also be used with or without audio cups.

**Applications**
- Daily biological testing of earphones
- Hearing test booth background noise level checks
Testing a Manual Audiometer

Operation of the Bio-Acoustic Simulator is a very simple process. Please refer to the user manual for more detailed instructions on how to perform a daily biological test on an audiometer.

1. After the audiometer is switched on and stabilized, the earphones are placed on the simulator.

2. The hearing level (HL) value is increased on the left earphone until the appropriate indicator light appears. The HL value is then recorded. This is repeated several times to ensure consistency. Test all audiometer frequencies from 125 Hz to 8 kHz. The entire process is repeated for the right earphone.

3. A biological log of the data should be kept. Always compare the new HL values to the original biological log that was established early in the calibration interval of the audiometer. All data should compare within ± 5 dB of the original biological log.