

INTRODUCTION

The OtoSimple II hearing screener has just one button. See figure 1. Pressing the rectangular shaped button turns on the unit.

Pressing and releasing the button advances the frequency. There are four frequencies: 500, 1000, 2000 and 4000 Hertz. The green light indicates which frequency is active.

Holding the button down causes the selected frequency to pulse and the light to flash red. See figure 2.

The default sound levels are calibrated to 25 db HL and the pulsing sound levels are calibrated to 40 db HL.

BASIC OPERATING INSTRUCTIONS

- Press and release the rectangular button. The unit turns on and a green light indicates that the 1000 Hz tone is active. See figure 1. The sound level is 25 db HL.
- Press and quickly release the button to advance to the next frequency. The green lights always indicate which frequency is active. The sound level remains 25 db HL.
- Holding the button down instead of quickly releasing it causes the unit to “pulse” on and off every 200 milliseconds. The light flashes red indicating that the unit is pulsing. See figure 2. The sound level becomes 40 db HL.
- If the button is released while the unit is pulsing the pulsing stops. The frequency remains unchanged. The sound level reverts to 25 db HL.
- To pulse the frequency again, press and hold the button again. The sound level changes to 40 db HL.
- The default sound level is calibrated to 25 dB HL for screening the general population. The pulsing sound level is 40 db HL and is used when a subject can't hear the softer default sound level.
- The unit turns itself off if no buttons are pressed for 60 seconds.

Become familiar with operating the unit before using it to screen a subject for hearing loss.

Your unit should be calibrated every 1-2 years. Check your State regulations. Go to www.HearingScreeners.com for information about re-calibrating your unit.

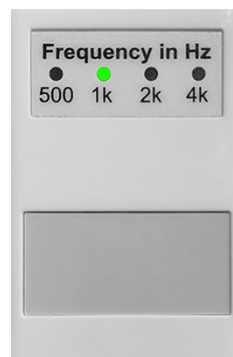


Figure 1

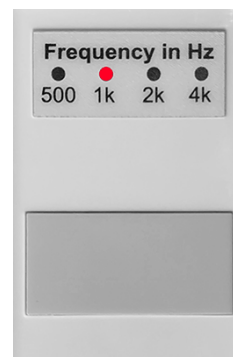


Figure 2

There are many different ways to use the OtoSimple II to screen hearing. Following is one possible method.

SCREENING PROCEDURE

STEP ONE – TALK TO THE SUBJECT

- For successful screening there needs to be good communication with the subject. Talk to the subject before any screening begins
- Explain to the subject to raise their hand when they hear something and lower their hand when they don't, see figure 3. Also explain to them to speak out when what they hear changes and explain what the change was. For instance they should say something when they detect the unit starts pulsing a tone.

STEP TWO – SETUP THE UNIT

- Holding the OtoSimple II unit away from the subject, press and release the rectangular button to turn the unit on.
- The lights should be as figure 1 indicates.
- When the OtoSimple II unit is turned on there is always a tone present. The green light indicates which frequency tone is active.

STEP THREE – QUICK CHECK

Do the following quick-check sequence to see if the subject is hearing all the tones:

- Place the unit over one of the subject's ears centered on their ear canal.
- If the subject raises their hand ask them what they hear to confirm it is a tone. If the subject doesn't raise their hand make a note that further testing is needed for this frequency.
- Press and quickly release the button to advance to the next frequency. If the subject hears the tone their hand should be raised and they should verbally indicate they hear a different pitch. If the subject doesn't raise their hand or comment on the frequency change, make a note that further testing is needed for this frequency. See figure 3.
- Repeat the above step as many times as necessary to get a consistent result for all frequencies. The 500 Hz test should be omitted if the testing environment is not very quiet.
- Repeat all of STEP THREE for the other ear.

STEP FOUR – VERIFY HEARING PROBLEMS

- Holding the OtoSimple II unit away from the subject, turn the unit on and sequence to the frequency the subject lowered their hand or didn't hear the presented frequency. Hold the button down until the red light begins to flash. See figure 2.
- Place the unit over the subject's ear centered on their ear canal.
- Ask the subject what they hear. If they don't hear a pulsing tone there is a good probability there is hearing loss at that frequency.
- Repeat STEP FOUR as many times as necessary to get a consistent result.

STEP FIVE - REFER

- Refer the subject for more detailed testing if a hearing loss is suspected

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Figure 3

Failure Criteria

Hz	500*	1000	2000	4000
Adults	25 dB	25 dB	25 dB	25 dB
Age 65+	40 dB	40 dB	40 dB	40 dB

* 500 Hz is included only if the ambient noise can be made very low.

Use an OtoScreen III or OtoScreen IV device for testing hearing in young adults and children. These can be purchased at www.HearingScreeners.com.

INSTALLING / REPLACING BATTERIES

- Remove the battery compartment screw using the supplied screwdriver.
- Remove the battery compartment cover.
- Install/replace three AAA batteries.
- Replace the battery cover and re-attach with the screw.
- Refer to figure 4 below.



Figure 4

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OtoSimple II Hearing Screener

USER GUIDE

