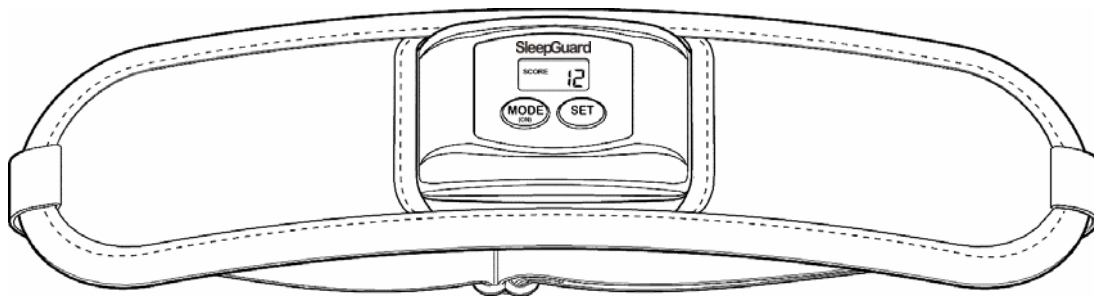


# SleepGuard™

## SG5 USER'S MANUAL



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**IMPORTANT:** Unless you are an expert in both Electromyographic Measurement and Subconscious Response Conditioning, please read this manual completely before using your SleepGuard biofeedback headband, and save these instructions.

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USA

Part 02-034 Rev K

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## ***Notice:***

This device is indicated for measurement of bruxism (teeth clenching and grinding), and for relaxation and muscle re-education to reduce bruxism and reduce associated ongoing damage and pain caused by bruxism, such as TMJD pain, jaw pain, neck pain, migraines, and headaches caused by bruxism. No other use or indication is claimed or intended.

## ***Questions:***

All questions regarding your health should be directed to your doctor.

For customer service regarding this device only, contact Holistic Technologies at 781-643-1242, Monday – Friday 12:00 PM – 6:00 PM US eastern time.

## Description

The SleepGuard electronic module is a miniaturized electromyographic (EMG) laboratory measurement device that uses conductive sensor pads on the forehead to sense the bioelectric signals from the temporalis muscles (at your temples) when you clench your teeth. With the use of sensor pad extension wires (available separately) it may also be used to sense masseter muscle actuation, or both masseter and temporalis. The module records the number of damaging clenches (clenches that last longer than two seconds) and total damaging clenching time, and can display these numbers on an LCD display, providing you with data to monitor your progress. In biofeedback mode, it will signal you to stop your clenching with a gentle RelaxTone™ sound, a patented feature designed to allow you to respond in your sleep without waking up, and designed not to wake your partner.

### Electronic Module

The heart of The SleepGuard headband is an

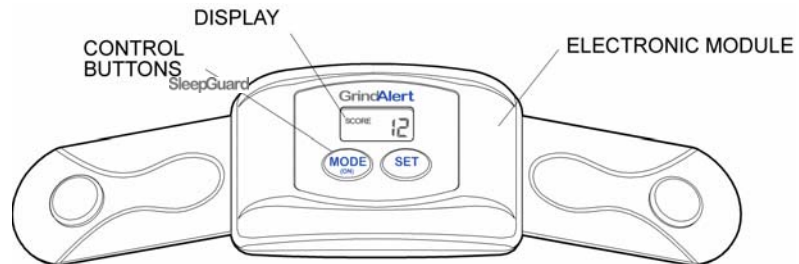
electronic module with MODE and SET buttons. The display can show:

**SCORE** - number of times you clenched longer than 2 seconds since last reset

**TIME** – total duration of damaging clenching since last reset

**LEVEL** - bite trigger level (clenching intensity necessary to trigger the unit)

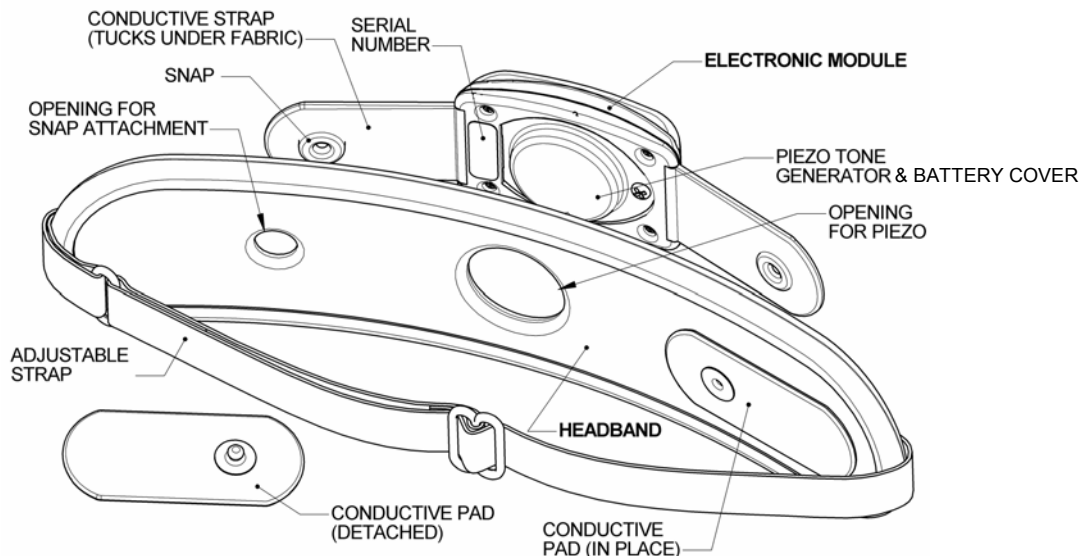
**VOLUME** – the loudness level the biofeedback tone ramps up to after 2 seconds



The back of the device features a stainless steel tone generator which rests against the forehead. The biofeedback sound is conducted to the inner ear through the skull from the forehead, so the unit may be used with earplugs if desired.

### Assembly

The illustration below shows a back view of the headband and electronic module.



# Basic Operation

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## *Wearing and Using the SleepGuard™ Headband*

1. **Clean and moisten your forehead and temples**  
Dry skin, oily skin, or oil-based moisturizers can prevent good contact between the black conductive rubber sensor pads and skin. Wiping your forehead and temples with a moist washcloth or a moist paper towel just before putting on the unit will help the connection.



2. **Place headband around head with little or no hair between sensor pads and skin**  
with the display portion facing outward and elastic around the back of the head. Center the stainless steel beeper snugly against the forehead. Make sure there is little or no hair between the black rubber sensor pads and your skin.

Turn on **AFTER** placing on head

3. **Push and release the MODE button once.** A number will appear on the display and you will hear a brief double-beep. After the double-beep, if the sensor pads are in good contact with your skin, there will be no more beeps unless temporalis or frontalis muscle action is detected.



4. **If the tone continues after the double-beep or sounds during movement that does not use jaw or forehead muscles, the unit may not have good skin contact.**

If the unit keeps beeping or beeps during movement from poor skin contact, make sure no hair is between rubber pads and skin, moisten, press in place, and try again. Conductive adhesive gel pads can be used on sensor pads in the rare cases when water alone does not provide a reliable connection. If used, gel pads must be covered between uses to prevent them from drying out.



5. **When you clench, you should hear a faint tone (the RelaxTone sound) that gets louder if you clench longer than 2 seconds.**

If you don't hear the tone when you clench, check that the volume level is not set to zero. If you still don't hear the tone when you clench but you do hear the tone if you raise your eyebrows, you may have dysfunctional temporalis muscles, in which case you will need to order extended sensor pads to sense masseter muscles (on the sides of the face).

6. **The display will show your score** (total number of damaging clenches). This will increment every time you clench longer than 2 seconds (which makes the

tone get loud) but will not increment on any clench that lasts less than 2 seconds. The SleepGuard module also keeps track of total time clenching beyond when the score increments. This is explained later.

- 7. IMPORTANT:** In order for biofeedback to enable you to drastically reduce clenching in your sleep, we need to establish and strengthen a part of your subconscious mind that will instinctively relax your jaw muscles the moment the quiet beginning of the biofeedback sound is heard. Since you already have a part of your subconscious mind that likes the sensation of clenching, the new part of the subconscious we are creating has to be strengthened over time to overcome the clenching addiction. Until your nightly clenching is reduced at least 80%, the following practice should be done for a few minutes every day while awake. We recommend doing this practice with the **Bite Level set to about 3, and the Volume set between 5 and 9:** While doing an activity (such as paying bills, doing e-mail, or watching TV), purposefully clench just hard enough so that you hear the quiet part of the tone. As soon as you hear the quiet start of the biofeedback sound, interrupt what you are doing (this practices interrupting a dream) and completely relax your jaw and facial muscles. As the biofeedback sound stops, imagine yourself gratefully letting go of the dream you were having when you clenched. Imagine instinctively relaxing each time you hear the biofeedback sound in your sleep, and imagine going into deeper sleep. Imagine yourself learning to relax all night and wake up refreshed. This daytime training is often a crucial part of getting great results. Many people continue doing a few minutes of daytime training (including imagining and visualizing cooperatively responding in sleep) each day to accelerate their success in kicking the clenching habit.

- 8. During the first few nights, wear your SleepGuard unit at night with the Volume set to 0 and the Bite Level set to 3.** Wearing your SleepGuard unit with the Volume set to 0 (which effectively turns off the biofeedback) is how you take what is called a "baseline" measurement of your nighttime clenching and grinding. This measures how much nighttime clenching and grinding you have "normally" been doing. Do not set the Bite Level higher than 3 for this measurement, or you may not count important "low bite level" clenching which can contribute to migraines, jaw pain, neck pain, etc.. Reset the Score (total number of clenching incidents) and Time (total clench time) before each night's use. Immediately after taking the unit off your head in the morning, make sure the unit is still turned on (displaying a number), and record your Score and Time numbers for the night.



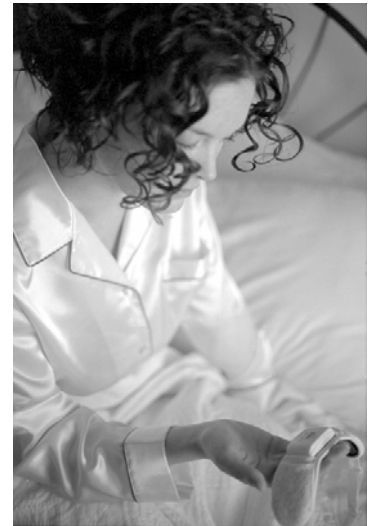
If you find that your SleepGuard unit is turned off (not displaying a number) when you take it off your head in the morning, then the sensor pads may be losing good contact with your head at some point during the night. If the unit loses contact for longer than 30 seconds, it turns itself off. This happens more easily for some head shapes and skin types than others. In such a case you might want to try using the optional conductive gel pads on the sensor pads (see video instructions at <http://StopGrinding.com/GelPads.htm>). A less expensive but messier option is to use a tiny dab of KY jelly or other conductive gel on the sensor pads.

Sensor pads are removable and should be cleaned occasionally with an alcohol wipe or soap & water. Care must be taken never to get water in the electronic module (which is not waterproof).

- 9. After the first few days, begin using your SleepGuard unit in biofeedback mode at night.** After having done the daytime training of your subconscious for three days, you are ready to start responding to the biofeedback in your sleep, so it is time to start using the SleepGuard unit at night in biofeedback mode. Typical settings that work well are Volume = 5 and Bite Level = 3. Light sleepers may want to set the volume level lower, and heavy sleepers may want to set the volume level higher. Remember, the volume level must be set to at least 1 or above, or the unit is not operating in biofeedback mode.

NOTE: It is normal to hear the tone briefly during swallowing or yawning (which use jaw muscles), and sometimes briefly during movement in bed. If your subconscious knows to expect this, it won't be a problem. If you hear the tone more than briefly when you roll in bed at a time you are not clenching, sensor pads may be losing contact, so you may want to use the conductive adhesive gel pads to get a more reliable connection (see instruction video at <http://StopGrinding.com/GelPads.htm>), or consult the SleepGuard Healthcare Practitioner's Manual at <http://StopGrinding.com/HealthcarePractitionersManual.pdf>

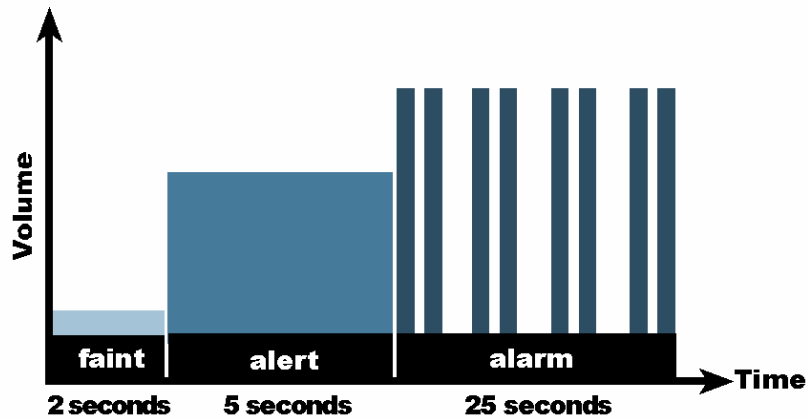
- 10. Track your nightly Score and Time.** Each morning, make sure the unit is still turned on when you take it off your head. Since the volume is turned on now, you will know the unit is turned on as soon as you take it off your head, because you will hear the tone. Each morning, as soon as you take the unit off your head, use the MODE button to cycle through and read your score and time from the previous night. Record these numbers on the chart provided. Then reset the count (see section on adjusting your SleepGuard unit settings), and track your progress in reducing your nighttime clenching and grinding.



- 11. Clean sensor pads occasionally with alcohol or soap & water.** Any buildup of dead skin or oil from skin on sensor pads can make the connection unreliable and result in unwanted beeping.

### ***RelaxTone***™

The biofeedback tone comes on gradually and is heard best when the stainless steel back of the unit couples the sound directly to your forehead. This also makes it much less likely that anyone sleeping next to you will hear the tone, especially if you have trained yourself to relax quickly during the quietest part of the tone. This allows for lower volumes that won't wake your partner. Depending on how long you clench, the tone goes through three stages:



**FAINT** - A faint tone begins immediately upon clenching and continues for two seconds. It is during this time that you want to instinctively relax your jaw.

**ALERT** - If you don't relax your jaw, a louder tone sounds after two seconds. The increased volume, which you can set, is intended to make you conscious that you are clenching. When the tone gets louder, your SCORE increases one point, and the TIME function starts counting in tenths of a second (though it only displays whole seconds).

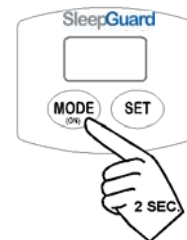
**ALARM** - After 5 seconds, the constant tone switches to an intermittent alarm, which continues until you stop clenching or grinding, or until the unit shuts itself off automatically after 30 seconds.

### ***Checking your Score***

Press and release the MODE button to stop the tone and see your Score (number of damaging clenches) on the display. Press and release the MODE button again to see the total damaging clenching Time in seconds. Record your Score and Time before resetting (see 'Adjusting SleepGuard Module Settings')

### ***Turning off your SleepGuard module***

Hold the MODE button down for 2 seconds to turn off the SleepGuard module. Alternately, it will turn itself off automatically after the 25-second alarm is heard.



## **Adjusting SleepGuard Module Settings**

### **TURNING ON**

To turn on the SleepGuard module, press and release the MODE button. The display will flash all segments momentarily, and then show the recently accumulated SCORE. You will hear a double beep as the SleepGuard module turns on.



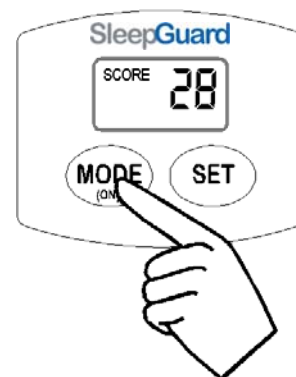
## SENSE MODE

In Sense Mode, the SleepGuard module will sense your clenching and grinding. *Sense Mode starts with a double beep, and in sense mode the display shows the present score.* The SleepGuard module detects sustained clenching and records clench count and the total clenching time beyond the first two seconds of each clench. **If the module is off the head or not positioned properly, then the ALERT and ALARM tones will be heard until the module turns itself off after 30 seconds, or is put in Adjustment Mode by the user.**



## ADJUSTMENT MODE

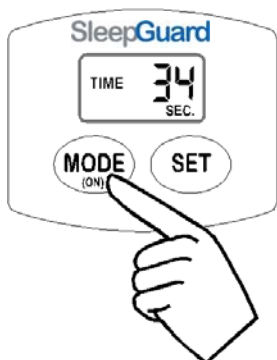
- At any time the SleepGuard module is operating, press and release MODE once to enter *Adjustment Mode*. Any beeping will stop, because the module is no longer trying to detect clenching. Momentarily press MODE several times to cycle through SCORE, TIME, LEVEL, VOLUME, and back to SCORE again. In adjustment mode, while the LEVEL or VOLUME settings are displayed, the SET button can be used to adjust them (for more information, see Setting Volume section and Setting Bite Level sections below).
- **When you are finished, wait 10 seconds** (enough time to put the headband back on) and the module will automatically revert back to *Sense Mode* with a double beep.



## CHECKING AND RESETTING SCORE

*The present score is shown by default in Sense Mode.*

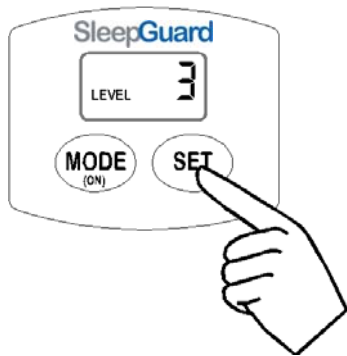
- Press and release the MODE button once. The SCORE is still shown (one point will be subtracted, this is normal), the word SCORE is lit. The tone will also stop.
- SCORE will count up to 999. The count will not roll over and remains in memory, even when the SleepGuard module is turned off.
- To clear SCORE, press and hold SET for two seconds while SCORE is lit. This will also clear the TIME.



## CHECKING AND RESETTING TOTAL CLENCH TIME

- Press and release MODE repeatedly until TIME is lit.
- TIME in seconds will be shown. This will count to 999 seconds. It will not roll over and remains in memory, even if the SleepGuard electronic module is turned off.
- To clear TIME, press and hold SET for two seconds while TIME is displayed. This will also clear SCORE.





## SETTING BITE TRIGGER LEVEL

NOTE: First make sure that the VOLUME is not set to zero! You will need to hear the tone to adjust the bite trigger LEVEL. Press MODE repeatedly until LEVEL is lit.

- The present setting for Bite Trigger Level is shown. Press and release SET to cycle through Bite Levels 0 - 9. The 0 setting requires the softest bite to trigger, and 9 requires the hardest bite to trigger. A bite level of 3 or below is recommended if relief from morning jaw pain or migraines or the like is desired.
- Choose a setting and place the unit on your head (See "Basic Operation.") Wait for the double beep, and then test the setting by mildly clenching your teeth. You should hear the quiet part of the tone right away. Note that front-teeth clenching does not use temporalis or masseter muscles and thus cannot be reliably detected unless modified by using a back-teeth-only mouth guard.
- If you have to bite hard to hear the tone, then the setting is too high. Set to a lower number, and try again.
- If the tone starts when you barely touch your teeth, then the setting may be too low. Increase the number and try again.
- The Bite Level setting will remain in memory, even when the unit is turned off.



## SETTING VOLUME

- Press and release MODE repeatedly until VOLUME is lit.
- The present setting for VOLUME is shown. Press and release SET to cycle through VOLUME levels 0-9. The tone will sound at the given volume each time you press SET. Adjust to a desired volume level. You may want to have the unit on your head while adjusting the volume, since the perceived volume will be different when the unit is on your head. At volume setting 0, the tone is off. Volume setting zero may be used to measure your baseline clenching and grinding activity (the amount of clenching and grinding you do without biofeedback).
- Once set, the Volume setting will remain in memory, even when the unit is turned off.

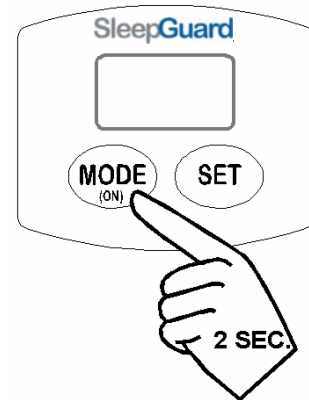
## RESUMING OPERATION

When you are finished checking levels and adjusting, the SleepGuard electronic module will revert back to *Sense Mode* automatically after 10 seconds. This should be enough time to put the headband back on.

## TURNING OFF

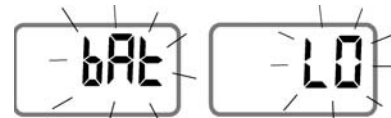
*Automatic Off* – The module will turn itself off automatically after 30 seconds if you are not wearing it. Six quick beeps will sound just before the module turns off.

*Manual Off* - Press and hold the MODE button for 2 seconds, and the unit will turn off. All settings including SCORE and TIME will remain in memory.



## LOW BATTERY

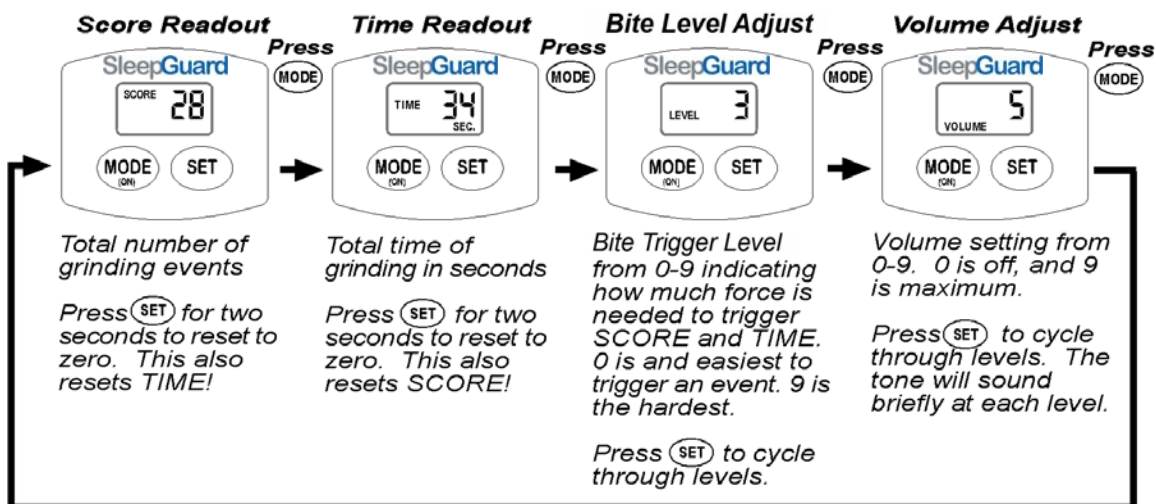
When the batteries become weak, the tone may sound strange. Eventually, the low battery signal will flash on the display. You will no longer be able to use the module in Sense Mode, but you can still access your Score and Time by pressing the MODE button. With low battery, the module will automatically shut itself off after 15 seconds.



## Quick Reference Chart

### **ADJUSTMENT MODE** Biofeedback tone will stop

Pressing (MODE) cycles through the following functions

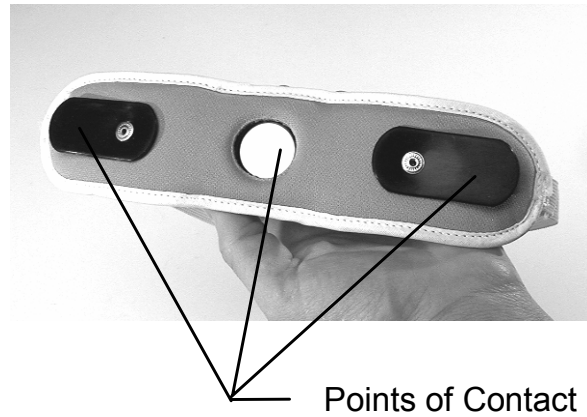


Wait 5 seconds, and unit will automatically return to **Sense Mode**

## Headband

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The Electronic Module snaps onto a replaceable headband. The snaps make an electrical contact with two detachable conductive pads on the inside of the headband. An opening lets the stainless steel beeper pass through the fabric, allowing it to make contact with the forehead. The metal disc and two conductive pads comprise the three 'Points of Contact.' In order for the headband to detect your clenching, the sensor pads must be in good signal contact with your skin. In order for you to most clearly hear the biofeedback sound, the stainless steel back should also touch the skin.



The elastic on the fabric headband is adjustable, and stretches to fit the head. The fabric headband may be detached for replacement or washing.

## Advanced Information Beyond This Manual

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About one person in ten will want or need more advanced information than is in this manual. Reasons may include exacting technical curiosity, or the need to solve unusual challenges such as:

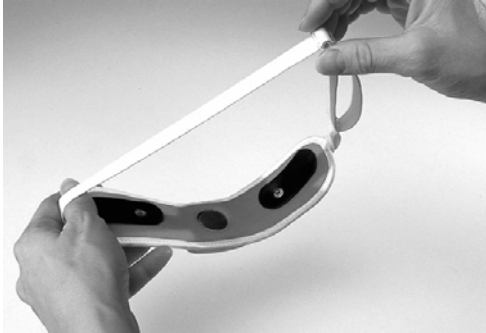
- Sensing clenching when temporalis muscles are dysfunctional
- Diagnosing and remedying unusual conditions which may cause the biofeedback to sound for some people in the middle of the night even when muscles are relaxed
- Desire to make undetectable clenching detectable
- Desire to help someone else succeed with nighttime biofeedback
- Understanding details of compatible and incompatible therapies
- Understanding synergies with some compatible therapies

When such advanced information is needed, consult the SleepGuard Healthcare Practitioner's Manual, available on line at:

<http://StopGrinding.com/HealthcarePractitionersManual.pdf>

# Headband Size Adjustment, Disassembly, Assembly

## *Adjusting the Headband*



The headband strap may be adjusted for a snug but comfortable fit. Simply slide the plastic buckle to make a size adjustment.

## *Detaching the module*



First remove the conductive pads by gently pulling around the rivet, and then remove the module. The conductive pads are made of specially engineered conductive medical silicone. **Save these pads!**

## *Reattaching the module*



Slide the straps on the electronic module into the pockets on the front of the fabric headband.



Align the snaps through the holes on the back and snap in a pad on each side. **Orient the pads as shown in the 'Points of Contact' diagram.**

## Allergies & Acne

In rare cases someone with a strong nickel allergy may have an allergic reaction to the stainless steel back of the unit. In such a case, the stainless steel can be covered with a circle of plastic tape.

Some people may develop acne over time in the area of the sensor pads. This problem can be overcome by washing the affected area with an antibacterial agent such as Clearasil before putting on the headband.

# Batteries

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## *Maintain Fresh Batteries*

- The SleepGuard electronic module uses two (2) CR2032 Lithium 3 Volt Batteries that can be found at most drug stores and electronic shops. Batteries may be purchased less expensively through the StopGrinding.com website.
- The batteries will last for 30 - 40 nights of use. If the module is stored with the batteries inserted, fresh batteries will last unused for over one year.
- When the biofeedback tone starts to sound strange, the batteries are low and need to be replaced. Eventually, a 'Battery Low' indicator will flash (See Page 8.) Keep fresh batteries in the module for optimal performance.
- Only name-brand batteries (such as Duracell, Eveready, Sony, Sanyo, or Renata) should be used. Off-brand batteries from China often have chemically defective plating which results in unreliable operation.

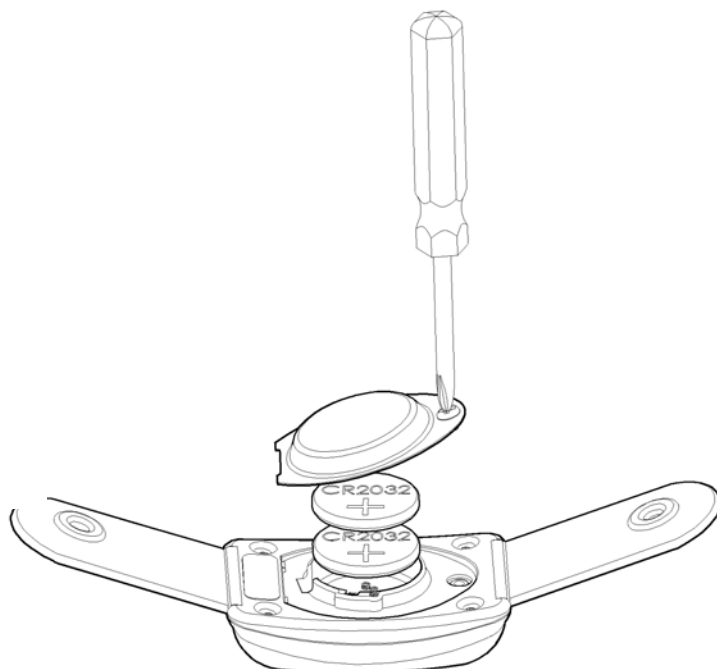
## *Replacing Batteries*

When batteries are removed, all information in memory is lost, including the settings for VOLUME and LEVEL. These will need to be reset. Make sure you have recorded SCORE and TIME, and note the VOLUME and LEVEL settings before changing batteries.

To install batteries, loosen the battery door screw with the small screwdriver provided and remove the metal battery door. **(CAUTION: The battery door is also the biofeedback sound beeper. Treat it carefully!)** Remove old batteries and place two new batteries firmly in the battery compartment with the positive "+" terminals facing you. Tuck the two battery door tabs into place, and then snugly tighten the screw.



Tuck in tabs first, then tighten screw



## **Maintenance, Care, and Cleaning**

WARNING: The Electronic Module is a delicate instrument. DO NOT IMMERSE IN WATER OR EXPOSE TO EXCESSIVE SUNLIGHT, HEAT, OR MOISTURE! Handle the module with care. Store at room temperature (50° - 95° F). Do not expose the instrument to extreme temperatures or humidity. For example, do not store in a car or on a window sill. The electronic module may be cleaned carefully with a damp cloth or alcohol-moistened cloth only.

### ***Cleaning Headband***

Wipe the conductive pads as needed with water or alcohol. The fabric headband may be hand washed in a mild detergent and hung dry, **but only after detaching the Electronic Module!**

## **Using Your SleepGuard Biofeedback Headband**

As with any biofeedback product, success will depend on how mentally aligned and cooperative you are with the process. Biofeedback is like brake lights on the car in front of you. Those brake lights don't stop your car. They provide a signal to your subconscious mind, and your subconscious mind (if you have trained it) makes sure you step on the brake.

### ***The SleepGuard headband may be used in a number of ways:***

#### ***Response Training and Establishing a Baseline***

For several nights, you wear the SleepGuard headband with the biofeedback tone turned off (Volume set to 0). This lets you measure how much clenching you have "normally" been doing each night. This is called your "baseline". This data is important for you to compare to how you later respond to biofeedback. During the initial days when you are measuring your baseline clenching at night, you also wear your SleepGuard unit some while awake each day in biofeedback mode, and train yourself to instinctively relax the moment you hear the quietest part of the biofeedback sound.

#### ***For Reduction of Clenching***

For at least two weeks, wear your SleepGuard biofeedback headband in biofeedback mode each night. The biofeedback tone conditions you to relax each time you clench. If you conditioned your subconscious well through the daytime practice, your subconscious will relax your jaw when it hears the biofeedback sound, and the sound will not wake you. The SleepGuard biofeedback headband sharpens your subconscious and conscious awareness of your clenching, putting you in control. Keep a daily record of your nightly SCORE and TIME during this period and compare them to your baseline data.

### *For Evaluation or Diagnosis*

The SleepGuard headband can be used at night with the biofeedback tone turned off, to evaluate clenching level or measure increase or decrease in baseline clenching after changing other factors, such as a mouth guard.

## **Recording Your Results**

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Keeping a record of your nightly numbers will allow you to see how you are progressing, and overcome obstacles so you can progress faster.

### **Bite Level**

Record the bite trigger level to which you have set your SleepGuard module.

### **Date**

For consistency, always use the date of the morning you are recording your scores. Tracking dates is important because the day of the week may influence your behavior. This will allow you to remember if you skipped a night.

### **Hours Asleep**

Record how long you slept. Total sleeping hours could affect scores.

### **Volume**

Record the volume setting each night. This will allow you to see the influence of the volume of the biofeedback tone on your total clench time.

### **SCORE and TIME**

Record the SCORE and TIME readings every morning when you wake up (on the sheet provided). In preparation for the next night, reset the SCORE & TIME to 0 (see instructions) immediately prior to going to bed. Please be diligent about recording your SCORE and TIME accurately; THIS IS THE MOST IMPORTANT INFORMATION.

### **Optional Chart**

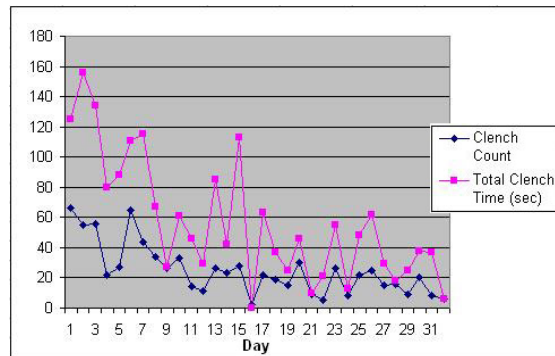
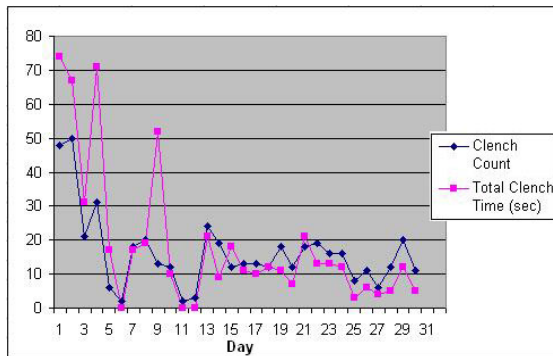
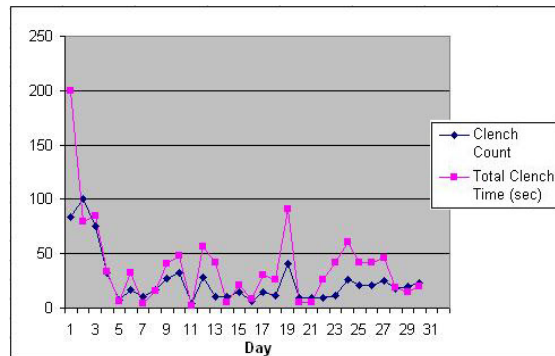
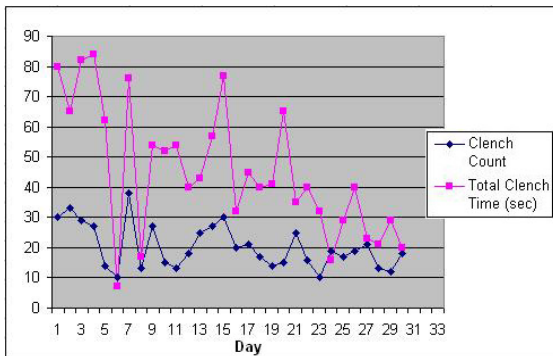
If you are experienced in using spreadsheet and charting software such as Microsoft Excel, you may want to use such software to chart your nightly score and time readings over a span of weeks. Examples of such charts from real users are shown in the "Interpreting Your Results" section below.

# Interpreting Your Results

Every person will respond to biofeedback differently, and the amount of daytime conditioning of your subconscious can make a big difference. Some people see an immediate drop in nightly score after the biofeedback is turned on. For others, there is a more gradual trend. Many external influences can affect the amount of your clenching activity, such as a particularly stressful day. It is normal for score and time readings to vary by up to a factor of three from one day to the next. You need to be patient with the program in order to see good results.

Below are four examples of actual results. Initial decrease is dramatic for some people and slow for others. If you find that your numbers come back up some after an initial drop, ongoing daytime response practice can help a great deal. Those who do best relate to the biofeedback sound as a loving reminder from a friend they really want to cooperate with.

Most of us are of "two minds" (so to speak) while sleeping. The trained part of us relates to the tone as a friendly reminder to relax. The un-trained part of us can relate to the tone as an annoyance, and that part wants to sleep through any annoyance. Even just a few minutes per day of ongoing daytime training can make a big difference. When doing daytime training (relaxation response conditioning), it is helpful to initiate the beep while doing an activity, and to train yourself to willingly interrupt that activity and relax your jaw and face and imagine yourself responding well in your sleep, and having great health. This helps train you to be willing to similarly interrupt whatever was going on in your dream that may have been associated with your clenching.





## Measuring Whether Sensor Pads Need Replacement

The sensor pads of the biofeedback headband are hypoallergenic silicone rubber with an internal carbon conductive matrix. Skin chemistry depletes the carbon over time and the pads lose their conductivity, which makes maintaining a reliable connection more difficult. Skin chemistry varies widely, so sensor pad depletion can take anywhere between two months of use and one year of use, depending on the skin chemistry of the user.

When sensor pads are depleted, the signal connection to skin can become unreliable, causing beeping when there is no muscle activity. That can lead the subconscious to grow distrustful of the biofeedback sound, making the whole biofeedback process less effective, so it is a good idea to keep a new set of sensor pads on hand.

A digital Ohm meter (digital multimeter set to measure resistance) can be used to measure whether the sensor pads have become depleted. If you don't own a digital multimeter or have a friend who has one, you can buy one for less than \$20 on Amazon or at Home Depot.



For sensor pads to be reliable, resistance measured as shown should be less than 1000 Ohms (less than 1k Ohm).

To make the measurement, first clean the sensor pad with alcohol or soap & water. Then touch one probe of the meter to the snap on the sensor pad being measured, and press the other probe into the middle of the rubber pad with about 8 ounces of force. Ohm meters may read out resistance in Ohms, or in kOhms (thousands of ohms).

It is recommended to change sensor pads if the resistance measured is more than 1000 Ohms (1 kOhm).

# Troubleshooting

Problem	Cause (and remedy)
SleepGuard module will not turn on when I press MODE.	<ul style="list-style-type: none"> <li>Batteries are dead or inserted with wrong polarity. (Insert properly)</li> </ul>
The tone sounds strange and uneven.	<ul style="list-style-type: none"> <li>Tabs of battery door may not be tucked in slots. (Re-attach back)</li> <li>Batteries are low. (Replace)</li> </ul>
I can't hear a tone when I clench after putting on the headband.	<ul style="list-style-type: none"> <li>Power may be off. (See instructions for turning unit on.)</li> <li>Volume too low, or set to 0. (Increase Volume to a level that you can hear.)</li> <li>Bite level set too high. (Adjust LEVEL to a lower number.)</li> <li>Battery door may not be seated correctly. (Re-attach battery door with tabs in slots)</li> <li>Front-teeth-only clenching cannot be detected because it does not use temporalis or masseter muscles. (Front-teeth clenched should use a mouth guard that ensures clenching on molars.)</li> <li>Some people simply can't hear frequency of tone. Confirm this with another person.</li> </ul>
Either right when I put the headband on, or starting some time in the middle of the night, the tone sounds and will not stop even though my muscles are relaxed. (If tone continues for 30 seconds until headband shuts off, this problem may show up as the headband being discovered to be turned off in the morning.)	<ul style="list-style-type: none"> <li>Poor sensor contact to skin. (wash &amp; moisten forehead &amp; clean pads, get hair out of way, press in place. In stubborn cases, use optional conductive adhesive gel pads on sensor pads - See Page 5)</li> <li>Worn out sensor pads (replace)</li> <li>Advanced contact problems caused by skin chemistry or under-skin conductivity changes (see SleepGuard Healthcare Practitioner's Manual or call customer service)</li> <li>Threshold setting is too low. (Adjust LEVEL to a higher number.)</li> </ul>
Slight movements trigger the tone.	<ul style="list-style-type: none"> <li>Sensor pad contact with head is poor. (See above.)</li> <li>Threshold setting is too low. (Adjust to a higher number.)</li> </ul>
The SCORE decreases by one when I first push the MODE button	<ul style="list-style-type: none"> <li>This is normal. When you take off the headband, a false event is recorded. Pressing MODE subtracts that event.</li> </ul>
SleepGuard module just doesn't behave right	<ul style="list-style-type: none"> <li>In rare cases, a static electric shock can electronically lock up the SleepGuard module. Simply take out the batteries, wait a minute, and put them in again.</li> </ul>
SleepGuard module used to detect my clenching but now sometimes does not detect my clenching, though it still beeps fine when I take it off my head	<ul style="list-style-type: none"> <li>Bite trigger level may have been changed accidentally. Check bite trigger level.</li> <li>Your brain may be learning to clench with masseter muscles only, so it can maintain the clenching habit without getting caught, in which case using sensor pad extension wires (see website) to detect masseter muscles will restore efficacy.</li> <li>You may have shifted to front-teeth clenching, in which case using a back-teeth-only mouth guard to shift clenching to back teeth may be needed</li> </ul>

## **Limited Warranty**

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New and rented SleepGuard biofeedback modules are warranted to be free from manufacturing defects for a period of one year from date of original receipt by purchaser under normal use. Refurbished units are warranted to be free from manufacturing defects for a period of 90 days from date of original receipt by purchaser under normal use. This warranty extends to the original purchaser only. Sensor pads have an expected life of two to six months of use, require periodic replacement, and are not covered by the above warranty. The fabric part of the headband has an expected life of four to six months of normal use, requires periodic replacement, and is not covered by the above warranty.

All warranty returns require a return authorization number, obtainable by phone or e-mail. During the warranty period Holistic Technologies will either repair or replace (at our option) free of charge any parts necessary to correct faults in materials or workmanship. This excludes damage to the product resulting from accident or misuse. Misuse includes any immersion of the module in water or other liquid, and any handling that results in water or other liquid getting inside the electronic module. Disassembly of the electronic module by consumer voids warranty.

The above warranty is complete and exclusive. Holistic Technologies expressly disclaims liability for incidental, special, or consequential damages of any nature. (Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above warranty may not apply to you.)

Any implied warranties arising by the operation of law shall be limited in duration to the term of this warranty. (Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

## **Technical Specifications**

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Model: SG5

Weight: 1.8 oz.

Batteries: Two CR2032 Coin Cells, included

Battery life: About 40 nights of use on fresh batteries

Battery Shelf Life: 2 years

Biofeedback tone frequency: ~2 kHz

Memory: Stores Score and Time until reset

Operating Temperature: Room temperature 60-95°F

Conductive Pad Material: Hypoallergenic Carbon-loaded Silicone

Tone Generator/Sensor Material: Hypoallergenic Stainless Steel