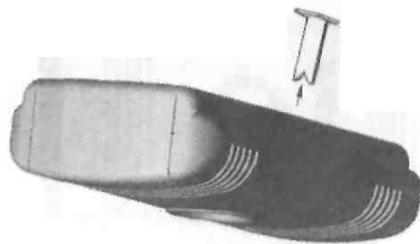


IMPORTANT

1. Remove the sticker and the plastic shipping retainer located on the back of the **Quake Alarm™** and discard both.
2. Do not install a battery until your **Quake Alarm™** is fully installed.

MOUNTING INSTRUCTIONS CHOOSING A LOCATION

Your **Quake Alarm™** can be mounted in various locations depending on your personal needs. One good location is in or near a bedroom where it will wake you up and provide an instant alert to allow you to take shelter or tend to other family members. Your **Quake Alarm™** can be mounted behind curtains, beside a night stand or in a hallway. It can also be mounted in general living areas such as living rooms and dens.



NOTE: When choosing a location, it is best if the **Quake Alarm™** is located away from doors due to the vibrations caused when a door is being closed. Greater sensitivity can be achieved when the **Quake Alarm™** is mounted on a firm wall or over a stud location on a load bearing wall. **If there are small children in the household, it is recommended that the Quake Alarm™ be mounted out of their reach.**

REFER TO FIGURES 1 & 2 ON PAGES 8 & 9

The **Quake Alarm™** mounts on the wall with the use of the Velcro strips on the back of the unit. Hold the unit against the wall to see how the PENDULUM (seen through the adjustment window) swings back and forth as you move the **Quake Alarm™**. When properly installed, the PENDULUM should be in the center of the TRIANGULAR CONTACT. (NOTE: Wall must be clean and dust free for the Velcro strips to stick.)

1. Peel away the white protective covering on the back of the Velcro strips.
2. Position the **Quake Alarm™** about half an inch away from the mounting location that you have chosen (straight out from the wall).
3. While looking through the ADJUSTMENT WINDOW, align the PENDULUM in the middle area of the TRIANGULAR CONTACT.
4. While keeping the PENDULUM in the middle area of the TRIANGULAR CONTACT, SLOWLY move the **Quake Alarm™** toward the wall until the Velcro strips make contact with the wall, then firmly press the **Quake Alarm™** against the wall for the adhesive to stick to the wall.
5. To center the PENDULUM from front to back (within the TRIANGULAR CONTACT), rotate the SENSITIVITY ADJUSTMENT SCREW clockwise or counter clockwise.
6. If the PENDULUM needs either LEFT or RIGHT adjustment to center it in the middle of the TRIANGULAR CONTACT, then SLIGHTLY loosen the lower end of the **Quake Alarm™** by pulling on the bottom to separate the Velcro and move it SLOWLY left or right as required to center the PENDULUM. Then press the Velcro strip back together by pushing the case against the wall.

NOTE: The previous steps #5 and #6 can be repeated until you feel confident that proper alignment has been completed. Once you are satisfied that the PENDULUM is centered in the middle of the TRIANGULAR CONTACT, connect a fresh 9-volt alkaline battery to the battery clip and place the battery into the battery compartment. The battery compartment is located on the top of the **Quake Alarm™** housing (see Figure 2) and is opened by lightly pushing down on the back of the cover and sliding the cover towards you (away from the wall). Reinstall by sliding in place and pushing down on the back of the cover.

BATTERY LIFE: Replace battery every two to three years depending on the shelf life of the particular battery that you install in the sensor. Test sensor at least monthly for loud sound output.

WARNING! Prolonged exposure to loud high frequency noise can cause hearing loss. When adjusting and testing your Quake Alarm™, it is best to cover the sound ports on the front of the Quake Alarm™ with masking tape or hold your fingers lightly over the sound ports. (Remove tape after adjusted.)

SENSITIVITY ADJUSTMENT

Sensitivity adjustment is accomplished by turning the SENSITIVITY ADJUSTMENT SCREW in or out. Turning the screw **clockwise** increases the sensitivity. Turning the screw **counter clockwise** decreases the sensitivity. While making sensitivity adjustments, the positioning of the PENDULUM and the TRIANGULAR CONTACT **must** be observed through the ADJUSTMENT WINDOW. **Figure 1 shows the areas of sensitivity.** To adjust your **Quake Alarm™** to its most sensitive setting, **SLOWLY** turn the SENSITIVITY

ADJUSTMENT SCREW clockwise until the alarm sounds continuously, then **SLOWLY** turn the SENSITIVITY ADJUSTMENT SCREW counter clockwise until the steady alarm sound turns into a pulsing alarm sound. Allow the PENDULUM a few seconds to stop moving between each adjustment. Continue to **VERY SLOWLY** turn the SENSITIVITY ADJUSTMENT SCREW **counter clockwise** until the alarm no longer sounds.

Your **Quake Alarm™** is now set to its most sensitive setting. If you find that walking or jumping on the floor or shutting a door causes the **Quake Alarm™** to sound the alarm, then SLOWLY turn the ADJUSTMENT SCREW **counter clockwise in very small increments.**

(1/16th of a turn). Continue this procedure until you are satisfied that the alarm will not sound during normal events in and around your home. Another method of testing the sensitivity setting (if it is not mounted on a concrete or block wall) is to push against the wall with the palm of your hand next to your **Quake Alarm™**. At its most sensitive setting, this will cause the alarm to chime.

TESTING

Test your **Quake Alarm™** by placing your finger or thumb above the **Quake Alarm™** label and lightly press and release until a chime is heard. The **Quake Alarm™** will automatically stop after a few seconds. Testing should be accomplished after any adjustment. Family members should be made well aware of the unique sound of the **Quake Alarm™** so they will automatically think about EARTHQUAKE SAFETY whenever the **Quake Alarm™** chimes.

IF YOU HAVE TROUBLE ADJUSTING YOUR **Quake Alarm™**

Sensitivity adjustment must be made in very small increments. It is especially important to allow the PENDULUM to settle down between any adjustment so that its resting position can be determined relative to the lower contact. Remember that the initial adjustment position is set so that the PENDULUM is located in the approximate middle area of the TRIANGULAR CONTACT. Once this is accomplished, then the final sensitivity adjustment can be set by using the SENSITIVITY ADJUSTMENT SCREW.

IF THERE HAS BEEN AN EARTHQUAKE AND YOU DID NOT HEAR YOUR **Quake Alarm™**, THEN:

1. The earthquake could have been too far away and to energy level was too low to be detected by the time it reached your area.
2. Your **Quake Alarm™**'s sensitivity adjustment is set too low.
3. Check the battery.

NOW is a good time to review your earthquake preparedness procedures. General information can be found in the emergency section of your phone book or by contacting your local chapter of the American Red Cross.

WHEN YOU HEAR THE **Quake Alarm™** REMAIN CALM ...

and carefully move to a safe location such as under a strong table or desk. Stay away from windows, bookcases, cabinets, mirrors and fireplaces until you no longer hear your **Quake Alarm™**. If you no longer feel any shaking and your **Quake Alarm™** is continuing to go off with a steady tone, then the wall that it is mounted on or the foundation of the structure could have slightly shifted.

A WORD ABOUT EARTHQUAKES

Your **Quake Alarm™** is a sensitive instrument and when adjusted to its most sensitive setting is capable of detecting relatively minor earthquakes from many miles away. It is important to remember that if an earthquake occurs at, for example, 100 miles away at a magnitude of 3.0, then by the time the shock waves reach you in approximately 28 seconds, it can be so weak that it will not be detected. Variables for seismic detection are many and include the duration of the activity, magnitude and distance, as well as the sensor's sensitivity setting. Other factors include the composition of soil or rock in the local area where the detector is located and the actual type and depth of the earthquake. One of the well known properties of an earthquake is wave propagation. Two types of such waves are known as the P wave and the S wave. The P wave is known as the compression wave and the S wave is known as the shear wave. The P wave travels about 3* miles per second and the S wave travels at about 2 miles per second and is more destructive. The **Quake Alarm™** will detect the P wave (compression wave) and set off the alarm before the destructive S wave (shear wave) reaches your area. If the earthquake occurs 50 miles away from you, then the lag time between the P and S waves can be as much

as 10 seconds, giving you time to prepare. Many times people have reported feeling two separate shock waves during an earthquake, which would account for the different arrival times of the P and S wave. Consult your local library for more detailed information.

LANDSLIDES

Your Quake Alarm™ is also a useful instrument for the detection of landslides or earth shifting. Often times landslides start with the gentle shifting of the earth due to water saturation during long periods of rain. This slow shifting effect can be difficult or impossible to detect, especially for people who are sleeping and who may eventually find themselves and their home sliding down an embankment or large slope. If your home is located in an area that is susceptible to landslides, then the Quake Alarm™ can give you early warning and potential time for evacuation. If in the event that your home does start to slowly shift or slightly lean, the Quake Alarm™ will sound a CONTINUOUS alarm and will not automatically reset.

LIMITED WARRANTY

jds Products, Inc. warrants the enclosed Quake Alarm™ Earthquake Detector to be free from defects in materials and workmanship under normal use and service for a period of one year from date of purchase.

During the one-year period from the date of purchase, such repair or replacement shall be made without charge.

jds Products, Inc. makes no warranty, expressed or implied, written or oral, including that of merchantability or fitness for any particular purpose, with respect to the battery.

jds Products, Inc. makes no other express warranty for this detector. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this warranty. The Company's obligations under this warranty shall be limited to the repair or replacement of any part of the detector which is found to be defective in materials or workmanship under normal use and service during the applicable period from date of purchase.

Quake Alarms™ in need of repair (within the one year warranty period) should be returned with purchase receipt, shipping prepaid, to: Consumer Relations, *jds* Products, Inc., 895 Embarcadero Drive, EI Dorado Hills, CA 95762.

jds Products, Inc. shall not be obligated to repair or replace products which are found to be in need of repair because of damage, unreasonable use, modifications, or alterations occurring after the date of purchase.

The duration of any implied warranty, including that of merchantability or fitness for any particular purpose, shall be limited to the period of one year commencing with the date of purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

GENERAL LIMITATIONS OF THE MODEL QA-2000 Quake Alarm™

This earthquake detector is intended for indoor applications and is not intended for outdoor use or where excessive moisture could harm it.

This Quake Alarm™ will not work without a working 9-volt alkaline battery attached to the battery terminals.

Quake Alarms™ **may not be heard.** The alarm horn loudness is about 100 dB at three feet. However, if the Quake Alarm™ is installed outside the bedroom, it may not wake up a sound sleeper or one who has recently used drugs or has been drinking alcoholic beverages. This is especially true if the door is closed or only partly open. Even persons who are awake may not hear the alarm horn if the sound is blocked by distance or closed doors. Noise from traffic, stereo, radio, television, air conditioner, or other appliances may also prevent alert persons from hearing the alarm horn. This Quake Alarm™ is not intended for people who are hearing impaired.

Quake Alarms™ are not a substitute for life insurance: Though these Quake Alarms™ warn against earthquakes, *jds* Products, Inc. does not warrant or imply in any way that they will protect lives from earthquakes. Homeowners and renters must still insure their lives.

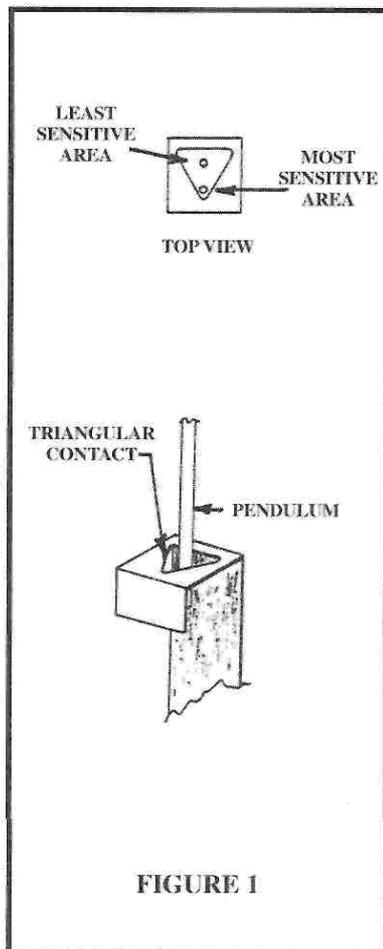
Quake Alarms™ have a limited life. Although the **Quake Alarm™** and all of its parts have passed many stringent tests and are designed to be as reliable as possible, any of these parts could fail at any time. Therefore, you must test your **Quake Alarms™** weekly.

Quake Alarms™ are not foolproof. Like all other electronic devices, **Quake Alarms™** have limitations. They can only detect an earthquake that reaches their sensors. They may not give early warning to an earthquake from a long distance away from the **Quake Alarm™**

Quake Alarm™ is a trademark of *jds* Products, Inc.

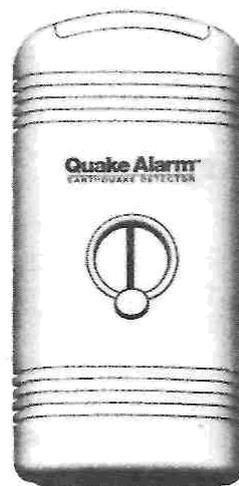
Post-It® is a trademark of the 3-M Company

jds Products, Inc.
895 Embarcadero Drive
El Dorado Hills, CA 95762
(916) 933-2699



Quake Alarm™

EARTHQUAKE DETECTOR
Installation and Operating Instructions



Model QA-2000

jds Products, Inc.
895 Embarcadero Drive
El Dorado Hills, CA 9576

