

#### Installation Instructions - Owner's/User's Information Manual -READ CAREFULLY & SAVE HOW TO TELL IF YOUR SMOKE ALARM IS INTRODUCTION

The 380LSb smoke alarm is a photoelectric (optical) type alarm for use as an evacuation device in residential applications. Each smoke alarm has a solid state piezo to warn and alert the household to the presence of threatening smoke as well as a visual signal to warn and alert the hearing impaired to the presence of threatening smoke.

Your photoelectric (optical) smoke alarm is designed to detect the smoke that results from an actual fire. Consequently, it is uncommon for household smoke such as cigarette smoke or normal cooking smoke to cause an alarm.

MODEL NO.	DESCRIPTION
*380LSb	120VAC with 9VDC battery backup, 60Hz wall mounted, provided with a 9 foot line cord, temporal 3 horn and visual signal.

\* Per NFPA 72, the American National Standard Audible Emergency Evacuation Signal as defined in ANSI S3.41, is required whenever the intended response is to evacuate the building.

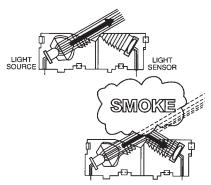
NOTICE: Visual signals are only one method of alerting the hearing impaired. Not all hearing impaired individuals will be alerted by visual signals.

### HOW YOUR SMOKE ALARM WORKS

These smoke alarms operate on the photoelectric (optical) light scatter principle. The unit's sensing chamber houses a light source and a light sensor.

The darkened sensing chamber is exposed to the atmosphere and designed to permit optimum smoke entry from any direction while rejecting light from outside the smoke alarm.

The light source is an infrared (invisible) LED which pulses every 4-8 seconds. The light sensor is a photodiode matched to the light frequency of the LED light source.



Under normal conditions, the light generated by the pulsing infrared LED is not seen by the light sensor, as it is positioned out of the direct path of the light beam. When smoke enters the sensing chamber, light from the pulsing LED light source is reflected by the smoke particles onto the photodiode light sensor. At the first sighting of smoke, the smoke alarm is put into a pre-alarm mode. This is indicated by a rapidly flashing LED on the face of the smoke alarm. Once the light sensor confirms smoke for 2 consecutive pulses inside the chamber, the light sensor produces the signal necessary to trigger the smoke alarm.

This technique of verifying the smoke condition, combined with a 5-to-1 signal-to-noise ratio, substantially reduces the possibility of nuisance alarms.

# WORKING PROPERLY

- Your smoke alarm is provided with an alarm horn and pulsating Light Emitting (indicator) Diode, which pulses every 15-30 seconds and a green AC power on LED.
- When turning the test knob on the alarm to TEST 1, the red light will flash rapidly, the horn will sound and the visual signal will flash

#### WARNING! Visual signal will not operate without AC power.

- If the battery is low or missing, a chirp will be emitted when the red LED flashes. If the smoke alarm is malfunctioning, the chirp will sound between the red LED flashes. If AC power fails, the green LED will turn off.
- The test knob of your smoke alarm simulates actual smoke conditions

#### FIRE PROTECTION PLAN: WHAT YOU CAN DO TO MAKE YOUR FAMILY SAFE FROM FIRES

This smoke alarm can quickly alert you to the presence of smoke-it cannot prevent fire. The ultimate responsibility for fire protection rests solely on you.

Installing smoke alarms is just the first step in protecting your family from fires. You also must reduce the chances that fires will start in your home and increase your chances of safely escaping if one does start. To have an effective fire safety program:

- a. Install smoke alarms properly following the instructions in this manual. Keep your smoke alarms clean. Test your devices weekly and repair or replace it when it no longer functions. As with any electronic product, smoke alarms have a limited life, and devices that don't work cannot protect you.
- b. Follow safety rules and prevent hazardous situations:
  - Use smoking materials properly; never smoke in bed.
  - Keep matches and cigarette lighters away from children.
  - Store flammable materials in proper containers and never use them near open flames or sparks.
  - · Keep electrical appliances and cords in good working order and do not overload electrical circuits.
  - · Keep stoves, fireplaces, chimneys, and barbecue grills greasefree and make sure they are properly installed away from combustible materials.
  - Keep portable heaters and open flames such as candles away from combustible materials.
  - Do not allow rubbish to accumulate.
  - Do not leave small children home alone.
- c. Develop a family escape plan and practice it with your entire family, especially small children.
  - Draw and post a floor plan of your home and find two ways to exit from each room. There should be one way to get out of each bedroom without opening the door.
  - Teach children what the smoke alarm signal means, and that they must be prepared to leave the residence by themselves if necessary. Show them how to check to see if doors are hot before opening them, how to stay close to the floor and crawl if necessary, and how to use the alternate exit if the door is hot and should not be opened.
  - Decide on a meeting place a safe distance from your house and make sure that all your children understand that they should go and wait for you if there is a fire.
  - Hold fire drills at least every 6 months to make sure that everyone, even small children, know what to do to escape safely.

- Know where to go to call the fire department from outside your residence.
- Provide emergency equipment such as fire extinguishers and teach your family to use this equipment properly.
- d. Bedroom doors should be closed while sleeping if a smoke alarm is installed in the bedroom. They act as a barrier against heat and smoke.

# WHAT TO DO IF THERE IS A FIRE IN YOUR HOME

If you have prepared family escape plans and practiced them with your family, you have increased their chances of escaping safely. Review the following rules with your children when you have fire drills so everyone will remember them in a real fire emergency. If the alarm should sound:

- a. Don't panic; stay calm. Your safe escape may depend on thinking clearly and remembering what you have practiced.
- b. Get out of the house following a planned escape route as quickly as possible. Do not stop to collect anything or to get dressed.
- c. Open doors carefully only after feeling to see if they are hot. Do not open a door if it is hot; use an alternate escape route.
- d. Stay close to the floor, smoke and hot gases rise.
- e. Cover your nose and mouth with a cloth, wet if possible, and take short, shallow breaths.
- f. Keep doors and windows closed unless you open them to escape.
- g. Meet at your prearranged meeting place after leaving the house.
- h. Call the Fire Department as soon as possible from outside your
- house. Give the address and your name.
- i. Never re-enter a burning building.

Contact your local Fire Department for more information on making your home safer from fires and about preparing your family's escape plans.

*NOTICE:* Current studies have shown smoke alarms may not awaken all sleeping individuals, and that it is the responsibility of individuals in the household that are capable of assisting others to provide assistance to those who may not be awakened by the alarm sound, or to those who may be incapable of safely evacuating the area unassisted.

*NOTICE:* Visual signals are only one method of alerting the hearing impaired to a fire. The visual signal may not awaken all hearing impaired individuals. The visual signal must be in the line of sight of the individual to be seen and effective.

**WARNING** Visual signal should <u>NEVER</u> be relied upon as the primary fire alert for the hearing impaired under these common sense conditions:

- a. Sleeping face down on the bedding or pillow
- b. Use of sleep medications of any kind
- c. Use of alcoholic beverages or recreational drugs
- d. Use of eye shades
- e. If there are tendencies of deep sleep conditions
- f. If a fire cuts power to AC circuits, the visual signal will not operate
- g. If person is not within line of sight of visual signal Under these and other similar common situations an alternate fire alert method such as a non-hearing impaired attendant is needed. The visual signal only increases the chance of being alerted to the presence of fire. No system of this type can fully protect the hearing impaired in case of fire.

### WHAT THIS SMOKE ALARM CAN DO

This smoke alarm is designed to sense smoke entering its sensing chamber. It does not sense gas, heat, or flames.

When properly located, installed, and maintained, this smoke alarm is designed to provide early warning of developing fires at a reasonable cost. This smoke alarm monitors the air and, when it senses smoke, activates its built-in alarm horn and strobe light. It can provide precious time for you and your family to escape from your residence before a fire spreads. Such an early warning, however, is possible only if the smoke alarm is located, installed, and maintained as specified in this User's Manual. *NOTICE:* This smoke alarm is designed for use within single residential living units only; that is, it should be used inside a single-family home or one apartment of a multi-family building. In a multi-family building, the smoke alarm may not provide early warning for residents if it is placed outside of the residential units, such as on outside porches, in corridors, lobbies, basements, or in other apartments. In multi-family buildings, each residential unit should have smoke alarms to alert the residents of that unit. Smoke alarms designed to be interconnected should be interconnected within one family residence only; otherwise, nuisance alarms will occur when a smoke alarm in another living unit is tested.

# *IMPORTANT NOTICE:* WHAT SMOKE ALARMS CANNOT DO

Smoke alarms will not work without power. A battery must be connected to the smoke alarm to maintain proper device operation if AC power supply is cut off by an electrical fire, open fuse or circuit breaker, or for any other reason. In the event of AC power failure, the battery will supply standby power for a minimum of 24 hours. WARNING! Visual signal will not operate on battery power alone.

Smoke alarms may not sense fire that starts where smoke cannot reach the devices such as in chimneys, in walls, on roofs, or on the other side of closed doors. If bedroom doors are usually closed at night, smoke alarms should be placed in each bedroom as well as in the common hallway between them.

Smoke alarms also may not sense a fire on another level of a residence or building. For example, a second-floor smoke alarm may not sense a first-floor or basement fire. Therefore, smoke alarms should be placed on every level of a residence or building.

The horn and visual signal in your smoke alarm meets or exceeds current audibility and visual requirements of Underwriters Laboratories. However, **if the smoke alarm is located outside a bedroom, the visual signal will not be seen or noticed by occupant and piezo sounder will not wake up a sound sleeper,** especially if the bedroom door is closed or only partly open. If the smoke alarm is located on a different level of the residence than the bedroom, it is even less likely to wake up people sleeping in the bedroom. In such cases, the National Fire Protection Association recommends that the smoke alarms be interconnected so that a device on any level of the residence will sound an alarm loud enough to awaken sleepers in closed bedrooms. This can be done by installing a fire-detection system, by connecting smoke alarms together, or by using radio frequency transmitters and receivers.

All types of smoke alarm sensors have limitations. No type of smoke alarm can sense every kind of fire every time. In general, smoke alarms may not always warn you about fires caused by violent explosions, escaping gas, improper storage of flammable materials, or arson.

*NOTICE:* This smoke alarm is not designed to replace specialpurpose fire detection and smoke alarm systems necessary to protect persons and property in non-residential buildings such as warehouses, or other large industrial or commercial buildings. It alone is not a suitable substitute for complete fire-detection systems designed to protect individuals in hotels and motels, dormitories, hospitals, or other health and supervisory care and retirement homes. Please refer to NFPA 101,The Life Safety Code, and NFPA 72 for smoke alarm requirements for fire protection in buildings not defined as "households."

Installing smoke alarms may make you eligible for lower insurance rates, but **smoke alarms are not a substitute for insurance.** 

Visual signals are only one method of alerting the hearing impaired to a fire. The visual signal may not awaken all hearing impaired individuals. The visual signal must be in the line of sight of the individual to be seen and effective. Home owners and renters should continue to insure their lives and property.

### PLACEMENT OF SMOKE ALARMS

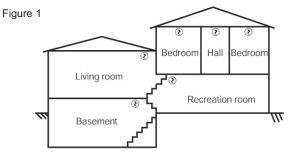
THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269).

For your information, the National Fire Protection Association's Standard 72, reads as follows:

NFPA 72, 2007 Edition, Chapter 11, Section 11.5.1.1 Where required by applicable laws, codes or standards for a specific type of occupancy, approved single and multiple-station smoke alarms shall be installed as follows:

- 1) In all sleeping rooms and guest rooms
- Outside of each separate dwelling unit sleeping area, within 6.4m (21ft) of any door to a sleeping room, the distance measured along a path of travel
- 3) On every level of a dwelling unit, including basements
- 4) On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics
- 5) In the living area(s) of a guest suite
- 6) In the living area(s) of a residential board and care occupancy (small facility)

The installation of additional alarms of either the smoke or heat type should result in a higher degree of protection. Adding alarms to rooms that are normally closed off from the required alarms increases the escape time because the fire does not need to build to the higher level necessary to force smoke out of the closed room to the required alarms. As a consequence, it is recommended that the householder consider the installation of additional fire protection devices. However, it should be understood that NFPA 72 does not require additional smoke alarms over and above those called for in Figures 1, 2, 3 and 4 where required smoke alarms are shown.



Indicates required smoke alarm

#### Figure 1: A SMOKE ALARM SHOULD BE LOCATED ON EVERY LEVEL OF DWELLING UNIT, INCLUDING BASEMENT, WITHIN EACH SLEEPING ROOM AND OUTSIDE SLEEPING AREAS.

Where to Locate the Required Smoke Alarms. The major threat from fire in a dwelling unit occurs at night when everyone is asleep. Persons in sleeping areas can be threatened by fires in the remainder of the unit; therefore, smoke alarms are best located in each bedroom and between the bedroom areas and the rest of the unit as shown in Figure 2.

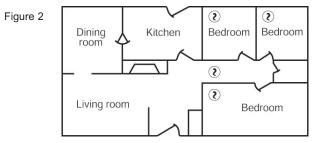


Figure 2: A SMOKE ALARM SHOULD BE LOCATED BETWEEN THE SLEEPING AREA AND THE REST OF THE DWELLING UNIT AS WELL AS IN EACH BEDROOM.

In dwelling units with more than one bedroom area or with bedrooms on more than one floor, more than one smoke alarm is required, as shown in Figure 3.

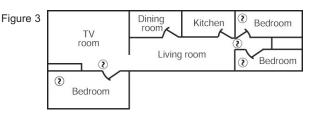


Figure 3: IN DWELLING UNITS WITH MORE THAN ONE SLEEPING AREA, A SMOKE ALARM SHOULD BE PROVIDED TO PROTECT EACH SLEEPING AREA IN ADDITION TO SMOKE ALARMS REQUIRED IN BEDROOMS.

In addition to smoke alarms outside of the sleeping areas and in each bedroom, NFPA 72 requires the installation of a smoke alarm on each additional level of the dwelling unit, including the basement. These installations are shown in Figure 4. The living area smoke alarm should be installed in the living room or near the stairway to the upper level, or in both locations. The basement smoke alarm should be installed in close proximity to the stairway leading to the floor above. Where installed on an open-joisted ceiling, the smoke alarm should be placed on the bottom of the joists. The smoke alarm should be positioned relative to the stairway so as to intercept smoke coming from a fire in the basement before the smoke enters the stairway.

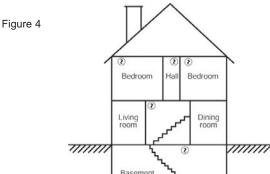


Figure 4: A SMOKE ALARM SHOULD BE LOCATED ON EACH LEVEL IN ADDITION TO EACH BEDROOM.

Are More Smoke Alarms Desirable? The required number of smoke alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke alarms. For this reason, the use of additional smoke alarms for those areas for increased protection is recommended, including smoke alarms with visual signals to alert and warn hearing impaired occupants to a fire. The visual signal must be in the line of sight of the individual to be seen and effective. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required smoke alarms. The installation of smoke alarms in kitchens, attics (finished or unfinished), or garages is not normally recommended, because these locations occasionally experience conditions that can result in improper operation.

#### **IMPORTANT CONSIDERATION**

# NFPA recommends replacing smoke alarm(s) every ten (10) years; why:

- Dust, dirt, and other environmental contaminants can affect your smoke alarm over a prolonged period.
- Fast changing industry consensus standards and codes on all smoke alarms make it advisable to periodically upgrade your device to maximize life safety.
- Assurance that your smoke alarm needs are kept abreast with the constantly improving electronic technology.
- Smoke alarms are recognized as one of the lowest cost ways to protect dwelling inhabitants against the danger of fire(s). It makes good common sense to periodically replace and update your smoke alarm that contributes so much to life safety.

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## **MOUNTING LOCATION**

- Wall location-locate the top of the smoke alarm at least 4 inches and not more than 12 inches from the ceiling and must be within 16 feet of pillow. Observe smoke alarm for proper top/bottom orientation (test knob is near bottom of unit).
- Smoke alarm with visual signal is to be mounted per NFPA 72 Annex A. 11.8.3. Ceiling location - smoke alarm should be mounted as close as possible to the center of a hallway or room. If this is not possible, the edge of the unit should be at least 4 inches from any wall and must be within 16 feet of pillow. Wall location-locate the top of the smoke alarm at least 4 inches and not more than 12 inches from the ceiling and must be within 16 feet of pillow. Observe smoke alarm for proper top/bottom orientation (test knob is near bottom of unit).

Figure 5

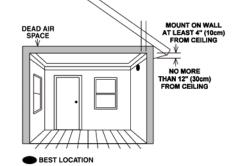


Figure 5: RECOMMENDED SMOKE ALARM MOUNTING LOCATIONS.

# WHERE SMOKE ALARMS SHOULD BE PUT IN MOBILE HOMES

In mobile homes built after about 1978 that were designed and insulated to be energy-efficient, smoke alarms should be installed as described in the section above. In older mobile homes that have little or no insulation compared to today's standards, uninsulated metal outside walls and roofs can transfer heat and cold from outdoors, making the air right next to them hotter or colder than the rest of the inside air. These layers of hotter or colder air can prevent smoke from reaching a smoke alarm. Therefore, put smoke alarms in such units only on inside walls, between 4 and 12 inches (10 and 30 cm) from the ceiling. If you are not sure about the insulation level in your mobile home, or if you notice that the walls or ceiling are unusually hot or cold, put the smoke alarm on an inside wall.

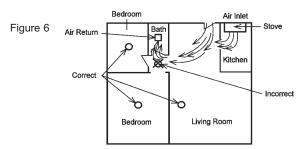
Minimum protection requires one smoke alarm as close to the sleeping area as possible. For better protection, put one smoke alarm in each room, but first read the "Locations to Avoid."

### LOCATIONS TO AVOID

**WARNING!** This smoke alarm must be installed within 16 feet of the pillow. Any location outside of 16 feet will cause this alarm to be less effective and not meet code requirements.

Nuisance alarms are caused by placing smoke alarms where they will not operate properly. To avoid nuisance alarms, do not place smoke alarms:

- In or near areas where combustion particles are normally present such as kitchens; in garages where there are particles of combustion in vehicle exhausts; near furnaces, hot water heaters, or gas space heaters. Install smoke alarms at least 20 feet (6 meters) away from kitchens and other areas where combustion particles are normally present.
- In air streams passing by kitchens. Figure 6 shows how a smoke alarm can be exposed to combustion particles in normal air movement paths, and how to correct this situation.



- In damp or very humid areas, or next to bathrooms with showers. The moisture in humid air can enter sensing chamber as water vapor, then cool and condense into droplets that cause a nuisance alarm. Install smoke alarms at least 10 feet (3 meters) away from bathrooms.
- In very cold or very hot environments, or in unheated buildings or outdoor rooms, where the temperature can go below or above the operating range of the device. Temperature limits for proper operation are 40° to 100°F (4.4° to 37.8°C).
- In very dusty or dirty areas. Dust and dirt can build up on the smoke alarm's sensing chamber and can make it overly sensitive, or block openings to the sensing chamber and keep the smoke alarm from sensing smoke.
- Near fresh air inlets or returns or excessively drafty areas. Air conditioners, heaters, fans, and fresh air intakes and returns can drive smoke away from smoke alarms, making the devices less effective.
- In dead air spaces at the top of a peaked roof or in the corners between ceilings and walls. Dead air may prevent smoke from reaching a smoke alarm.
- In insect-infested areas. If insects enter a smoke alarm's sensing chamber, they may cause a nuisance alarm. Get rid of bugs before installing devices where bugs are a problem.

**WARNING!** Never remove power from smoke alarm to silence a nuisance alarm. Open a window or fan air around device to remove the smoke. The smoke alarm will automatically turn off when the smoke in the air is completely gone. Do not stand close to device. The sound produced by the smoke alarm is loud because it is designed to awaken you in an emergency. Prolonged exposure to the horn at a close distance may be harmful to your hearing.

## **BATTERY INSTALLATION**

- 1. Remove smoke alarm from mounting plate by rotating counterclockwise.
- 2. Remove AC power connector and unsnap power leads from top of the old battery. Snap new battery onto snaps and reinsert battery through hole in back of smoke alarm.
- Use only Duracell MN 1604 battery with the 380LSb Series smoke alarms.

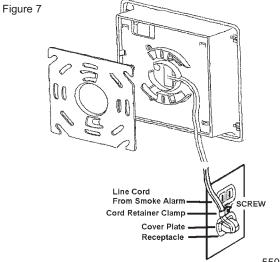
## Notice: Visual signal will not operate during AC power failure.

### 380LSb MOUNTING: PLATE & SMOKE ALARM

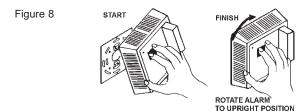
The 380LSb is supplied with a 9 foot line cord for installation to a normal outlet box. For this type of installation:

- Care should be taken to lace cord through slots in base as shown in Figure 7 to insure cord does not interfere with engagement of the mounting bracket.
- 2. Determine proper location for smoke alarm above a receptacle that is **NOT CONTROLLED BY AN "ON-OFF" SWITCH.**
- 3. If screw anchors are used, drill two 3/16" holes, insert the screw anchors, and mount the plate to wall using screws.
- Mount the smoke alarm to the bracket as illustrated in Figure 8.
  Use the enclosed cord retainer clamp as illustrated in Figure 7

to insure the unit is not accidentally disconnected. Warning! This unit must be installed within 16 feet of the pillow with an unobstructive view of occupant.



550-0480 Page 3-4 Place smoke alarm up to mounting plate, rotating it to about 10:00 o'clock then rotate it clockwise to 12:00. It should "snap-lock" firmly into place. Keep smoke alarm parallel to the mounting plate so upper and lower tabs on the plate seat into the smoke alarm (Figure 8).

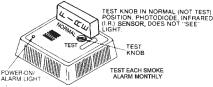


**CAUTION:** Failure to observe any conditions set forth may cause system malfunction and damage to smoke alarm.

### **CHECKOUT & TROUBLESHOOTING**

- Turn test knob to the NORMAL position and supply house power to the smoke alarm. The red indicator should flash every 15-30 seconds, showing that the smoke alarm is operating properly.
- 2. If red light is not flashing or the green LED is not on:
  - a. Check that the battery is installed.
  - b. Check to see if the plug is in the outlet.
  - c. If the power and wiring check out, but the red light does not flash or the green LED is still off, return the device to the manufacturer. See TO RETURN A SMOKE ALARM.
- 3. Testing with the Test Knob:
  - a. Rotate test knob counter-clockwise to TEST 1 position, wait up to 20 seconds for smoke alarm to sound and visual signal flash. If device does not sound after 20 seconds, return smoke alarm for service.
  - After successfully testing smoke alarm, return test knob to NORMAL (non-test) position and wait 20 seconds for the smoke alarm to stop sounding.

Figure 9



- c. To test smoke alarm for high sensitivity, turn test knob clock wise to TEST 2 position. Smoke alarm should remain silent. Return knob back to normal position. If your smoke alarm sounds during test, the device's sensitivity has become too high and may cause false alarms. This could mean the smoke alarm is dirty and should be cleaned as described in maintenance procedure below. If the smoke alarm continues to alarm for TEST 2 position following cleaning return it to MasterGuard Corporation for service.
- d. To check for proper smoke entry into smoke alarm's sensing chamber. MasterGuard Corporation recommends using the Home Safeguard Smoke Detector Spray or CHEKKIT® SMOKE Detector Tester from SDI. This test should be performed once a year and should be sprayed from a distance no closer than 12 inches from device.

#### MAINTENANCE

When smoke alarm has been in operation for a period of time or it was installed prior to the completion of all building construction, the device can become more sensitive due to dirt build-up in smoke alarm's optic sensing chamber which could cause nuisance alarms or could cause activation from small amounts of smoke build-up.

If this should occur, following this simple washing procedure will restore your smoke alarm back to its original condition.

For further information, regarding frequency of cleaning and testing, refer to NFPA 72, NFPA, Batterymarch Park, Quincy, MA 02269. *NOTICE:* Failure to follow full cleaning instructions could result in damage to this smoke alarm. DO NOT remove all smoke alarms at the same time for cleaning.

- Rotate smoke alarm counter-clockwise to remove it from its mounting plate.
- 2. Unplug electrical power cord to smoke alarm and remove battery.

- Select three (3) standard size wash buckets and fill them each with one gallon of normal tap water (distilled or de-ionized treated water is recommended as a final rinse if water is extremely hard in your area).
- 4. Add 1/8 cup of Ivory dishwashing liquid to first bucket of water, mix thoroughly. Place one dirty smoke alarm into soap water mixture until it becomes completely covered or submerged. NOTE: If smoke alarms are exceptionally dirty, you may wish to first wipe off any excess dirt before washing smoke alarm so as not to dirty the wash water too quickly.

# DO NOT open smoke alarm for cleaning. IF SMOKE ALARM IS OPENED, PRODUCT WARRANTY BECOMES VOID.

NOTICE: ONLY IVORY DISHWASHING LIQUID IS TO BE USED. OTHER BRANDS ARE NOT RECOMMENDED AND MAY CAUSE YOUR SMOKE ALARM TO MALFUNCTION.

- Allow smoke alarm to soak for approximately 10 minutes (longer if extremely dirty). Agitate for 5 or 10 seconds to flush out any remaining dirt left inside smoke alarm's housing.
- Remove smoke alarm from wash water and transfer directly to one of first rinse buckets containing clear water. Allow smoke alarm to become completely submerged, agitate once more for 5 or 10 seconds to remove soap residue.
- Finally, transfer smoke alarm to second and final rinse bucket, repeating method found in Step 6. Remove unit to a clean dry area for a period of 48 hours to allow it to thoroughly dry.

NOTICE: SMOKE ALARMS ARE TO BE AIR DRIED ONLY. DO NOT PLACE DEVICE IN OVEN, MICROWAVE OR USE A HOT AIR BLOWER TO ACCELERATE DRYING TIME. THIS COULD RESULT IN DAMAGE TO YOUR SMOKE ALARM. IMPORTANT: IT IS RECOMMENDED TO CHANGE WASH AND RINSE WATER AFTER FIVE (5) SMOKE ALARMS. IF YOUR DEVICES ARE EXTREMELY DIRTY, WATER SHOULD BE CHANGED MORE FREQUENTLY.

In the event you experience difficulty in the cleaning of device(s) or if questions arise, please contact MasterGuard Corporation.

**WARNING** If smoke alarm does not work properly, do not try and fix it yourself. This will void your warranty. See "To Return a Smoke Alarm" for instructions to return smoke alarm that does not operate properly. DO NOT TRY TO FIX IT YOURSELF. **IMPORTANT**: MasterGuard Corporation recommends smoke alarm be tested a minimum of once a week.

WARNING! Never use an open flame of any kind to test your unit. You may ignite and damage the smoke alarm as well as your home. The test feature of your smoke alarm accurately simulates smoke conditions and tests the device's functions as required by UL. WARNING! Do not cover, tape, or otherwise block the openings of smoke alarm. These openings are designed to allow air to pass through your smoke alarm, thus sampling the air around the device. WARNING! Smoke alarms are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

FAILURE TO REGULARLY CLEAN SMOKE ALARM WILL RESULT IN FALSE ALARMS. A BUILD UP OF DUST CREATES AN OBSCURATION THAT SIMULATES SMOKE. THIS MEANS UNIT WILL GO INTO ALARM WITHOUT A FIRE CONDITION.

### TO RETURN A SMOKE ALARM

Should you experience problems with your smoke alarm, proceed as follows:

- Rotate unit counter-clockwise to remove from its mounting plate.
  Unplug electrical power cord to smoke alarm and remove
- battery. Do not ship smoke alarm with battery installed. 3. Carefully pack (manufacturer is not responsible for damage)
- and return to manufacturer. Include complete details as to exact nature of difficulties being experienced and date of installation.
- 4. Return to: MasterGuard Corporation, 801 Hammond Street, Suite 200, Coppell TX 75019

#### LIMITED WARRANTY

For a period of 24 months from the date of purchase. MasterGuard warrants to you, the original consumer purchaser, that your Smoke Alarm will be free from defects in workmanship, materials, and construction under normal use and service. If a defect in workmanship, materials, or construction should cause your Smoke Alarm to become inoperable within the warranty period, MasterGuard will repair your Smoke Alarm or furnish you with a new or rebuilt replacement Smoke Alarm without charge to you except for postage required to return the Smoke Alarm to us. Your repaired or replacement Smoke Alarm will be returned to you free of charge and it will be covered under this warranty for the balance of the warranty period.

This warranty is void if our inspection of your Smoke Alarm shows that the damage or failure was caused by abuse, misuse, abnormal usage, faulty installation, improper maintenance, or repairs other than those performed by us.

ANY WARRANTIES IMPLIED UNDER ANY STATE LAW, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLY ONLY FOR THE WARRANTY PERIOD SPECIFIED ABOVE PLEASE NOTE THAT SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS. SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. MASTERGUARD WILL NOT BE LIABLE FOR ANY LOSS, DAMAGE, INCIDENTAL

OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING IN CONNECTION WITH THE SALE, USE, OR REPAIR OF THIS SMOKE ALARM. PLEASE NOTE THAT SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

If a defect in workmanship, materials, or construction should cause your Smoke Alarm to become inoperable within the warranty period, you must return the Smoke Alarm to MasterGuard postage prepaid. You must also pack the Smoke Alarm to minimize the risk of it being damaged in transit. You must also enclose a return address. Smoke Alarms returned for warranty service should be sent to: MasterGuard Corporation, 801 Hammond Street, Suite 200, Coppell TX 75019.

If we receive a Smoke Alarm in a damaged condition as the result of shipping, we will notify you and you must file a claim with the Shipper. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

THIS IS YOUR COPY OF OUR LIMITED WARRANTY. PLEASE RETAIN IT WITH

PROOF OF DATE OF PURCHASE IN A SAFE PLACE.

#### 25 YEAR PRODUCT REPLACEMENT WARRANTY

After the above Limited Warranty set forth in the Installation Instructions - Owner's Information has expired, commencing in the 25th month and extending to the 324th month, MasterGuard guarantees to repair or replace your smoke alarm at a preferred customer discounted price which includes shipping and handling and is adjusted annually. The Product Replacement Warranty does not create any other obligations or liabilities of MasterGuard Corporation.

This offer is extended only to the original purchaser and is available when the detector is sent to MasterGuard with a description of the problem and proof of purchase. This replacement offer is void if our inspection reveals that the damage or failure is a result of abuse, misuse, improper maintenance, abnormal usage, or unauthorized repairs. At least an annual washing (according to the directions supplied in this owner's manual or www.masterguard.com) is recommended to prolong the useful life of your MasterGuard smoke detector.

Contact MasterGuard for current pricing, then forward your check and smoke alarm with postage prepaid to MasterGuard. Enclose your return address and daytime telephone number. MasterGuard will ship the new replacement unit upon receipt of the above requirements.

It should be noted that the National Fire Protection Association (N.F.P.A.), which is the

national independent regulatory body for the fire protection industry, currently recom-mends that electronic smoke detectors be replaced after 10 years of use. Therefore, any MasterGuard smoke alarm over 10 years old is replaceable at this special discounted price without inspection.

THIS PRODUCT REPLACEMENT POLICY SHALL HAVE NO EFFECT ON ANY WARRANTIES CONTAINED IN THE LIMITED WARRANTY. MASTERGUARD DIS-CLAIMS ANY OTHER DUTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. REPLACEMENT AT THE DISCOUNTED PRICE IS THE SOLE REMEDY UNDER THIS POLICY AND MASTERGUARD WILL NOT BE LIABLE FOR ANY LOSS, DAMAGE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING IN CONNECTION WITH THE SALE, USE, OR REPLACEMENT OF THE SMOKE ALARM OR WITH RESPECT TO THIS PRODUCT REPLACEMENT POLICY. PLEASE NOTE THAT SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDEN-TAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS PRODUCT REPLACEMENT POLICY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

#### Lifetime Fire Replacement Warranty

MasterGuard will replace at no cost to the original owner any MasterGuard smoke detector that has been damaged or destroyed by an accidental fire. Any unit(s) or part(s) thereof that are damaged or destroyed must be returned to MasterGuard within 90 days of the fire (unless otherwise dictated by state or local laws) accompanied by a complete activation report and verification report from the local fire department to qualify for this free replacement

#### Important Notice:

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