



OWNERS MANUAL

SmokeGard II ^{T.M.}
EARLY WARNING HOME SMOKE DETECTOR

INTRODUCTION

You are now the owner of an unusual new smoke detector offered for the first time to the home market. The SmokeGard*, because of its low cost, makes it possible for the homeowner to use the same ionization principle that has long been used by industry, for high value property protection and life safety. This electronic instrument represents a major advance in home life safety.

SmokeGard II*

- Protects lives.
- So sensitive—it sounds a warning at the first sign of smoke in your main exitway, giving you time to react.
- Protects property.
- Earlier detection means a small fire when spotted, and should substantially reduce damage.
- Offers practical protection for the normal one and two family dwelling.

The SmokeGard* provides early warning of small or smoldering fires yet it will not alarm from a room full of heavy smokers!

IONIZATION—

is the principle behind the **SmokeGard II*** Most fire detectors for the home, until now, have been triggered either by heat or visible smoke, or a combination of these two. Neither of these—even with all the elaborate wiring and multiple installation required—is as prompt to sound an alarm as an early warning smoke detector that operates on the ionization principle. When products of combustion, visible or invisible smoke, enter the small inner chamber of the detector, the electronic sensor detects the minute change causing the alarm to sound.

WARRANTY

Upon receipt of the Warranty Registration card, Statitrol Corporation warrants the **SmokeGard II*** Detector against defects in workmanship, materials and construction under normal use and service for a period of one year from the date of purchase. Upon receipt of a defective **SmokeGard II*** at our factory, Lakewood, Colorado, shipped prepaid, Statitrol will repair or replace and return, shipment prepaid.

This warranty does not apply to any detector which has been disassembled, tampered with, painted or which has been misused or damaged by accident or negligence.

Batteries are not included in this warranty.

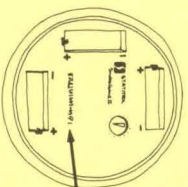
Serial Number _____

SmokeGard II[®] Model 720
Warranty Registration SmokeGard II[®] Ionization Home Smoke Detector

Owners Name _____

Street Address _____

City _____ State _____ Zip Code _____



Serial Number

Date Purchased _____ Date Installed _____

Serial Number _____

(3 Letters and 4 numbers on plastic battery compartment cover)

[®]Trademark

SPECIAL NOTICE

One year after receipt of this Warranty Registration Card you will receive a *special* battery replacement offer. This will allow you to obtain new pretested replacement batteries at approximately *50% discount* from normal retail price.

ATTENTION

- 1. TEST YOUR SMOKEGARD WEEKLY.**
- 2. REPLACE BATTERIES ONCE EACH YEAR.**
- 3. RETURN WARRANTY CARD.**

First Class
Permit #3671
Lakewood, Colo.

BUSINESS REPLY MAIL

No postage necessary if mailed in U.S.A.

Postage will be paid by

STATITROL[®] CORPORATION

140 South Union Blvd.
Lakewood, Colo 80228

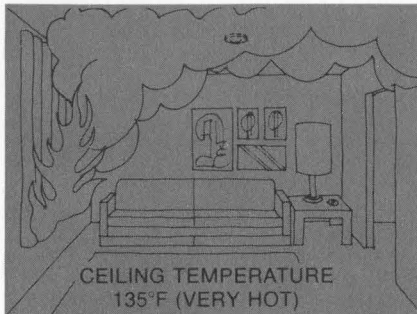
IN A FIRE SECONDS COUNT

You have made an important decision – a lifesaving decision – with the purchase of your **SmokeGard II*** early warning detector.

Read the following information carefully. Tear out and review the “Family Instruction” card in back of this manual.

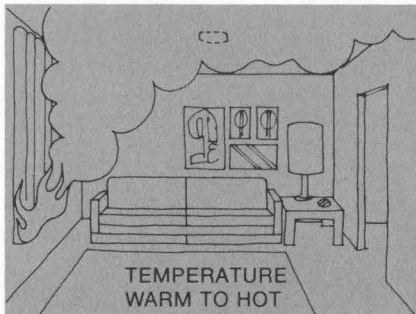
***REVIEW THIS
“FAMILY INSTRUCTION” CARD
WITH THE ENTIRE HOUSEHOLD***

IONIZATION PROVIDES THE EARLIEST WARNING TO PROTECT YOUR FAMILY



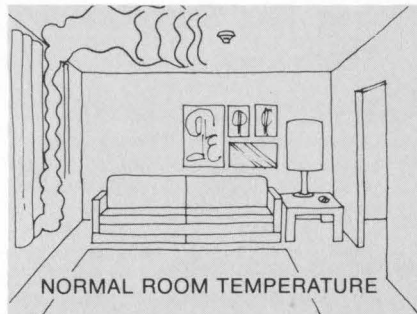
Heat Detectors

In the past, fire detectors in homes were most often of the heat detector variety. Recommended placement is one per room, closets included, with all units wired to a single control panel and alarm bell. It takes a temperature of 135° to trigger this kind of alarm. Before a fire gets that hot, it can smolder for some time creating toxic gasses and smoke. Sleeping persons could be overcome without ever hearing the alarm.



Smoke Detectors

Other devices used in homes are often the type of smoke detectors which respond only to visible smoke. Delayed action may result when the shield that shuts out normal light from the room also cuts back the air flow necessary to draw smoke into the sensing chamber and set off the alarm. Precious time can be lost.



New Ionization Detectors

Ionization instruments are so sensitive that they can respond to the slight changes in the air caused by fire or combustion. The ionization detector will normally alarm well in advance of either heat or visible smoke detectors. Ionization detectors are widely used in business and industry for protection of valuable areas.

The SmokeGard* uses this ionization principle in a new, low-cost, family defense unit. A family can hear the alarm—loud and clear—and gain time to get to safety.

*Trademark

Using The SmokeGard II* — Step 1 —

SELECT LOCATION CAREFULLY

- A. Locate detector on the ceiling.
- B. Locate your detector in the immediate area of the bedrooms—between the sleeping area and the kitchen or living areas.

WHY THIS LOCATION?

1. Statistics of the National Fire Protection Association (NFPA) show that over half of the fatalities from home fires occur at night—because of delayed warning or no warning—when families are asleep.
2. These same NFPA statistics show that most fires originate in the kitchen and living room areas.
3. Most victims are overcome by smoke and toxic gasses—not by heat.

SPECIAL CONSIDERATIONS

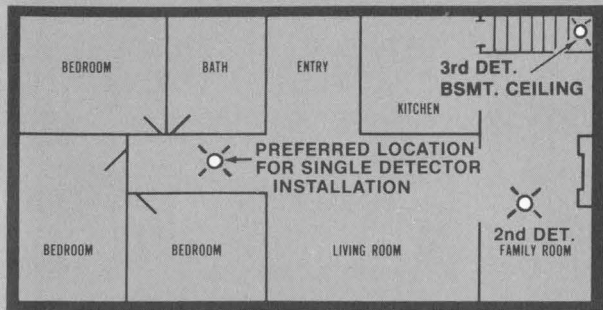
1. If there is more than one bedroom "area", there should be a detector at each bedroom "area".
2. THE LOCATION MUST ALLOW THE ALARM TO AWAKEN ALL SLEEPING PERSONS—THROUGH CLOSED BEDROOM DOORS.
3. If "Uncle Charlie" is a heavy sleeper—or smokes in bed—there should be an additional detector located near the center of the ceiling of his room.
4. Bedrooms are usually farthest from an exit. If possible therefore, the detectors should protect the exit path—so they will sound the alarm before there is sufficient smoke to prevent escape.
5. Smoke, heat and most products of combustion rise to the ceiling, and then spread horizontally along the ceiling. Stairways provide vertical shafts, like chimneys, for smoke and heat to move up rapidly.

Therefore, DETECTORS MUST ALWAYS BE MOUNTED ON THE CEILING—NEAR THE CENTER OF THE ROOM OR HALL—OR AT THE TOP OF STAIRWAYS.

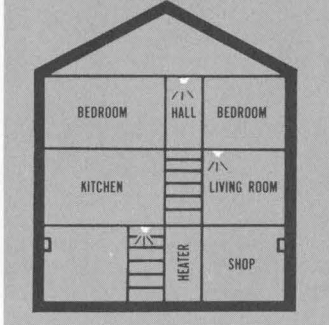
A FEW DON'TS

1. **DO NOT LOCATE IN KITCHEN.** Although early warning detectors will not respond to natural gas flame or electric ranges, they may cause unnecessary alarms from burned foods, burned toast, broiling or baking.
2. **DO NOT LOCATE IN THE GARAGE.** Automobile exhausts are concentrated combustion products and again, unnecessary alarms may result.
3. **DO NOT LOCATE IN FRONT OF AIR REGISTERS,** or where open windows or doors will create high air velocities at the detector.
4. **DO NOT LOCATE IN ATTICS, BATHROOMS,** inside air ducts, or unheated buildings. Temperature limits: 40°F to 110°F.
5. **DO NOT LEAVE SMOKEGARD IN UNHEATED MOTOR HOMES, ETC.,** where temperature may fall outside the limits (40°F. to 110°F.).

PLAN "A"



PLAN "C"



PLAN "A"

Typical One-Floor Home—Locate 1st unit center of hall ceiling—between bedrooms and balance of the living area. 2nd & 3rd detector locations recommended for improved protection.

PLAN "B"

Ranch Style, with **two** bedroom areas—Note: Two detectors minimum.

PLAN "C"

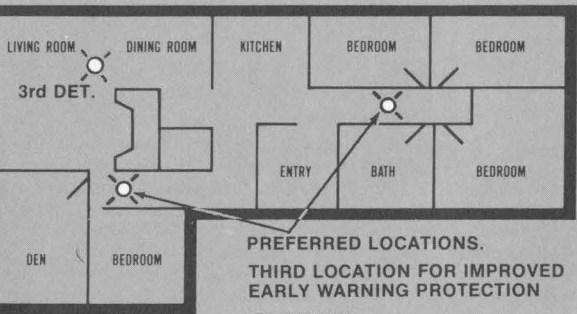
Second Floor—Center of hall ceiling—
—at top of stairs.

Main Floor—Ceiling main hall between stairway and main exit.

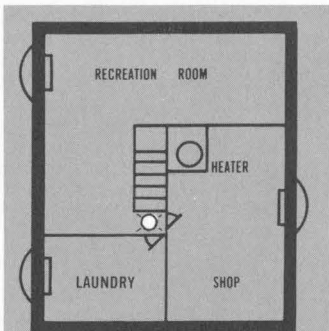
Basement—Between bedroom and the stairway, on the ceiling—within approximately ten feet of any bedroom door.

PLAN "D"

If there are no bedrooms in the basement, locate detector at the entrance to the stairway on the basement ceiling.

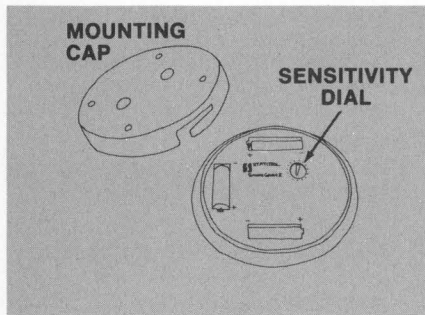


PREFERRED LOCATIONS.
THIRD LOCATION FOR IMPROVED
EARLY WARNING PROTECTION
PLAN "B"



PLAN "D"

Step 2 – INSTALLING THE THREE BATTERIES

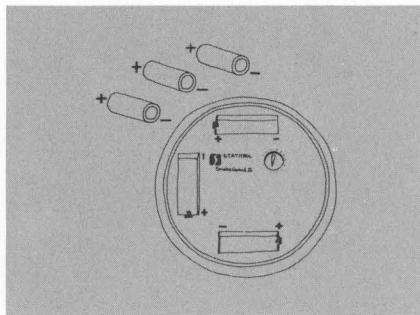


Your SmokeGard II* operates on three 4.5 volt alkaline batteries. Average life – one year.

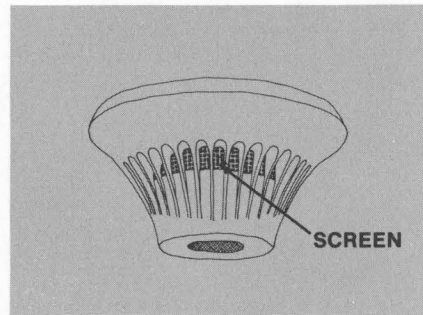
CAUTION: Use ONLY the MALLORY #PX 21. These are available at hobby shops, Hi-Fi and Radio shops.

A low-battery signal produces an audible "chirp" every few seconds as batteries reach the last of their useful life and gives you ample warning to make battery replacements.

IMPORTANT: after any absence from the home of three days or more, the unit should be tested. (See Illustration Step 3.)



To install the batteries, remove the mounting cap by twisting the cap to the left and lift. Insert the (+) end of each battery against spring and press battery to the bottom of the compartment. Insert the other batteries in a similar manner. **Increase** sensitivity setting until the alarm sounds intermittent or solid. If the alarm does not sound before reaching position #15 recheck the battery positions. Should the detector *still* not sound the alarm, return to your dealer for battery check or replacement of detector. **CAUTION:** (a) Battery life on the shelf is about two years. To get the most for your money, be sure to use only fresh batteries.



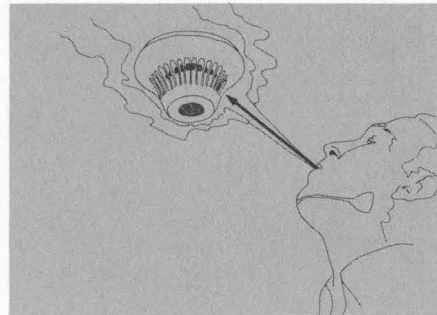
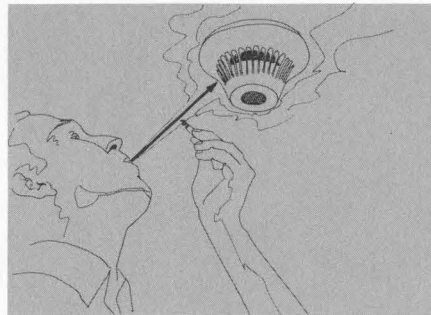
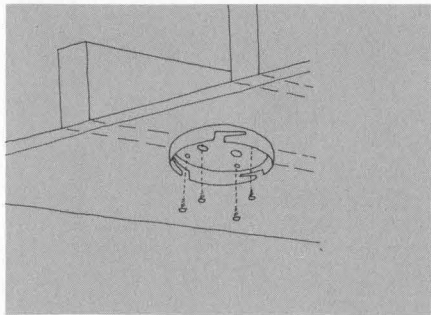
(b) Whenever batteries are removed from detector be sure to remove all three to prevent damage to remaining batteries.

STEP 3 – Mounting, Setting and Testing the SmokeGard II*

MOUNTING

After selecting the best location (Step 1), fasten the mounting cap to the ceiling (flat side to ceiling) with the two screws furnished. Where possible, fasten screws through the ceiling to the wood joists. If ceiling is made of drywall, plaster

Step 3 – MOUNTING, SETTING AND TESTING THE SmokeGard*



or other soft material, use plastic expanders, supplied with detector, moly fasteners or toggle bolts. Be sure the cap is mounted securely.

SETTING

Before attaching your detector, adjust the sensitivity as follows:

Increase sensitivity setting until alarm sounds in short bursts. Then, decrease three divisions. For example: If alarm starts to sound at #6 position, then it should be set at #3. **CAUTION: Turning the knob less than three divisions below alarm will seriously reduce battery life.**

The SmokeGard* is now set for normal sensitivity. It may be set lower if, for instance, normal cooking smoke causes unnecessary alarms. Never lower sensitivity setting unless absolutely necessary.

Attach detector to mounting cap by twisting to the right until the detector is snug to the ceiling.

TESTING

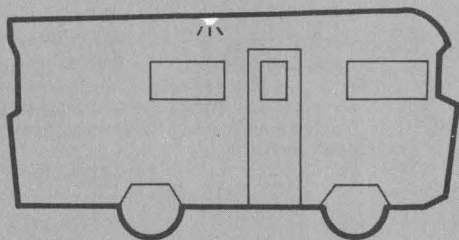
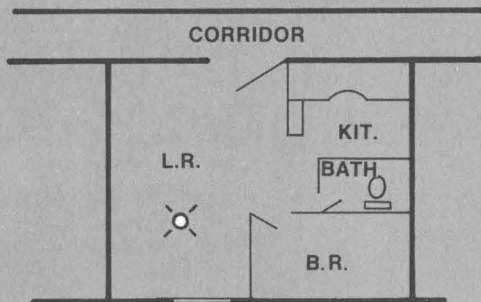
Test your SmokeGard* by blowing smoke from a match or cigarette into the screen area until the alarm sounds. To clear alarm, gently blow the smoke out of the screen area. Test your

detector frequently and *always* after any absence from home of more than three days.

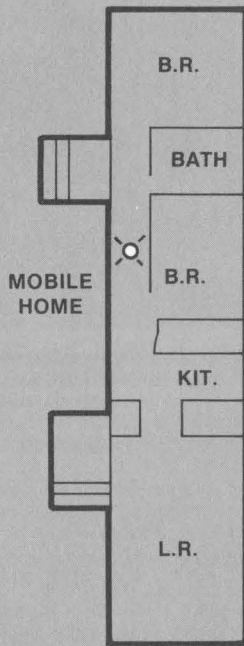
SERVICE

Vacuum or blow dust from screen area once each year or when changing batteries. There is nothing to wear out in your SmokeGard* except the batteries. Replace with fresh batteries once each year.

STUDIO APARTMENT



MOTOR HOME



MOBILE HOME

CONSIDERATIONS FOR OTHER USES

Mobile Homes, or Modular Homes, often contain a high density of combustible materials with a fast rate of fire spread. An early warning detector, properly located to *protect the sleeping areas*, can provide time to escape.

Apartments. Early warning is important for apartment dwellings. In addition to a professionally installed and approved central system of smoke detection to protect corridors and exits, an early warning detector in each apartment can increase life safety.

Motor Homes. SmokeGard II* warns against smoke, auto exhaust, and defective heater emissions. Don't gamble. If alarm sounds, evacuate and ventilate immediately even though visible smoke is not present.

Hotel or Motel Rooms.

SmokeGard* can travel with you on trips. Set it and then place it upside down on the highest flat surface near your bed, as you retire. Caution: Combustion gasses and smoke rise to the ceiling. Therefore, this application is only recommended as a temporary expedient for the traveler.

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OTHER DEFENSE MEASURES YOU CAN TAKE

Prepare a Plan of Escape from your Home.

You have now installed a SmokeGard II* Early Warning Smoke Detector to alert you at the first sign of fire. The next step is up to you. Start to plan for escape:

1. Draw a floor plan. Show alternate escape routes from each room. Review it with each member of the family and post it as a reminder.
2. Train each child to *follow a practical plan*—the best insurance against panic when fire occurs.
3. Agree on a meeting place outside the house.

A fully charged fire extinguisher is useful. Be sure it carries a testing laboratory certification. See your local fire department for assistance.

When the alarm sounds:

1. Follow the escape plan—get out.
2. Meet at a pre-determined place.
3. Call the fire department (from an outside phone).
4. *Do not* re-enter a smoke-filled house!

SEE FAMILY PLANNING GUIDE IN BACK OF BOOK.

FALSE ALARMS or "UNWANTED" ALARMS

Because the SmokeGard® must be super-sensitive to assure early smoke detection, conditions can arise which will produce unwanted or false alarms. Although this might be considered a nuisance, most owners find it comforting. "We know it's working to keep us safe."

The Detector will not cause an alarm from normal cigarette, cigar or pipe smoking until such time as the smoke conditions are intolerable. However, if smoke is blown directly into the unit within a short distance, or a cigarette is held in the direction of the Detector so that invisible products of the combustion strike it—the alarm will sound.

Most of these alarms can be avoided by proper placement of the unit. Refer to "A Few Don'ts."

To Stop an Unwanted Alarm:

- 1) Open doors and windows to clear the smoke.
- 2) "Fan" the Detector with a magazine or newspaper.
- 3) If ventilation doesn't quiet the alarm, remove Detector from ceiling and blow into it.
- 4) If the horn still continues to sound, remove all 3 batteries.

BE SURE TO REPLACE THE DETECTOR PROMPTLY and reset the unit for normal operation (see Step 3).

SPECIAL PRECAUTION:

Do Not Paint the Detector. Paint may clog the grille area or the lower cloth opening at the horn. This will void the Warranty.

Specific Environment Limits

Temperature	40°F to 110°F
Humidity	0% to 95%
Air Velocity	300 feet per min.

Please —

Take one more minute to complete and return the attached *Warranty Registration Card*. No postage is necessary.

With your purchase of **SmokeGard*** —

You have taken a giant step in protecting your family from fire—

Advise your local Fire Department of this new installation. They are always willing to help in placing fire extinguishers, making an escape plan, or a fire inspection.



Approved

Life Safety (from fire and combustion gases) **is our business.**

*Trademark

IMPORTANT INSTRUCTIONS FOR ESCAPE PROCEDURE

1. Always sleep with bedroom doors closed.* They can keep out fire and smoke long enough to allow escape through your **EMERGENCY ESCAPE ROUTE** (see reverse side).
2. Be sure everyone in the family recognizes the sound of your SmokeGard. It means **GET OUT NOW!**
3. Don't waste time getting dressed or gathering your valuables.
4. Feel bedroom doors before opening — intense heat, deadly smoke and gases on the other side may strike you down in seconds.
FIRST — “FEEL” The Door — is it hot? Is smoke leaking around the edges? IF SO, DON'T OPEN!
SECOND—If not, brace shoulder against door, turn head away and open door **SLIGHTLY**, ready to slam closed if heat and smoke rush into the room. *In all cases, stay close to the floor when exiting.*
5. Arrange an outside meeting place. Once out, **STAY OUT!**
6. Call Fire Dept. (After everyone is out).

FIRE ESCAPE PLANNING

1. Make a simple drawing of the entire floor area.
2. Show bedrooms, locating windows, doors and stairs. On upper floors, show any rooftops, etc., that could be used as a fire escape.
3. Go to each bedroom. Select the best window for an **EMERGENCY ESCAPE**. Test the window, screen or storm sash to see that they open easily and are large and low enough for use.
4. Draw in arrows showing normal exit and emergency exits from each bedroom. Remember, **YOU MUST PLAN TWO ESCAPE ROUTES FROM EACH ROOM**.
5. Gather the family together, go over your plan—then set up and conduct a fire drill **AT LEAST EVERY 6 MONTHS!** Use the family instructions on the reverse side.

NOTE: IF YOU HAVE ANY QUESTIONS ABOUT FIRE SAFETY, CONTACT YOUR LOCAL FIRE DEPARTMENT. THEY WILL BE PLEASED TO ADVISE YOU.

**Remember the Two Words that can Save
Your Life in a Fire:**

“GET OUT”

BECAUSE:

- 1. Lack of Oxygen in a fire impairs clear thinking.**
- 2. The fire produces poisonous gases which can kill you.**

The wisest investment you have ever made for yourself and your family are the seconds and minutes of early warning you have purchased with this detector.

Another Fire Defense Product by:

 **STATITROL[®]**

140 S. Union Blvd., Lakewood, Colo. 80228

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Patents Pending
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