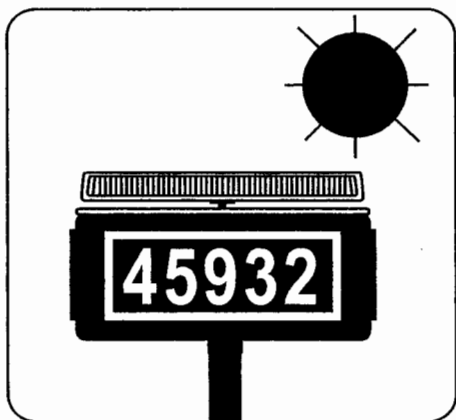


# SUN-MATE<sup>®</sup>

Solar Address Light

## OPERATING MANUAL

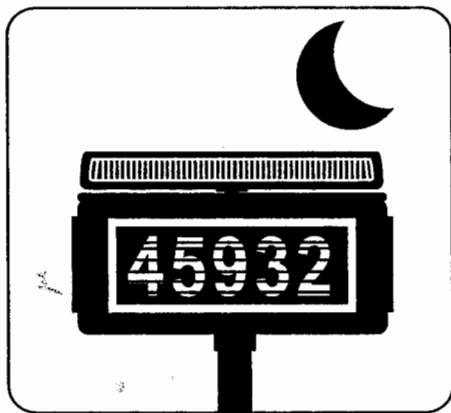
MODEL NO. 221



### *How it works :*

During the day the solar panel gathers energy from the sun.

At night the Address Light automatically turns itself "ON" at dusk, "OFF" at dawn. 4 hours of full sun will run the SUN-MATE<sup>®</sup> for 3 nights !



SUN-MATE<sup>®</sup>CORP.

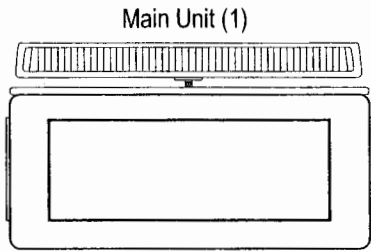
*The Future is Now.....With Solar Energy*

## Features

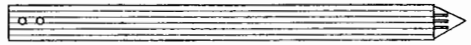
- Solar Panel can be oriented to optimize the sun's energy - or - removed for remote placement using 8 feet of wire supplied.
- Weatherproof.
- Rugged ABS housing.
- Includes all hardware for stake mounting and wall mounting.
- Built in light sensor turns unit off/on automatically.
- Illumination source never needs replacement.
- Includes 16 inch mounting stake.
- Bright white 4 inch numbers are easily visible from 500 feet at night.
- Up to 5 digit placement.
- Completely assembled, ready to install, NO WIRING needed.
- 1-1/2 hours of full sun runs the unit all night long.

# Contents of Package

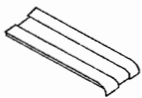
1. One SUN-MATE Address Light completely assembled.



16 Inches mounting stake (1)



2. Hardware bag containing : 2 stakes barbs, 1 flat head screw, 1 machine screw, 2 self-tapping screws and plug.



Barbs (2)



Plug (1)



(1) Machine Screw  
1-11/16" Long



(2) Self Tapping Screw  
2" Long



(1) Flat Head Screw

3. Numbers packet containing :  
Numbers (units of each)

0 (One)

1 (Two)

2 (Two)

3 (Two)

4 (Two)

5 (Two)

6 (Two)

7 (Two)

8 (Two)

9 (Two)

A (Two)

B (One)

C (One)

D (One)

E (Two)

F (One)

G (One)

H (One)

I (Two)

J (One)

K (One)

L (One)

M (One)

N (One)

O (Two)

P (One)

Q (One)

R (One)

S (One)

T (One)

U (Two)

V (One)

W (One)

X (One)

Y (One)

Z (One)

Blank ( One)

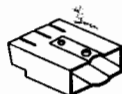
Dash (One)

**Total 52 sheets**

4. Stake adapter and cap.



Cap (1)



Stake Adapter (1)

5. Warranty card.

6. Guarantee of performance.

7. For additional flexibility and special needs letters are available as well as additional numbers through special order. (Please refer to enclosed order card for these additional products).

## OPERATING INSTRUCTIONS

**CONGRATULATIONS !!** Your New Sun-Mate® Address Light is a product that is designed for years of trouble-free use.

By following these simple set up instructions, you will ensure problem free operation of your SUN-MATE®.

### Summary of Installation Steps :

- I. Choose site location.
- II. Unpack-set up.
- III. Install at site location.
- IV. Operation.
- V. Trouble shooting

### I. CHOOSING YOUR SITE LOCATION

(See OPTIONS section for additional mounting configurations).

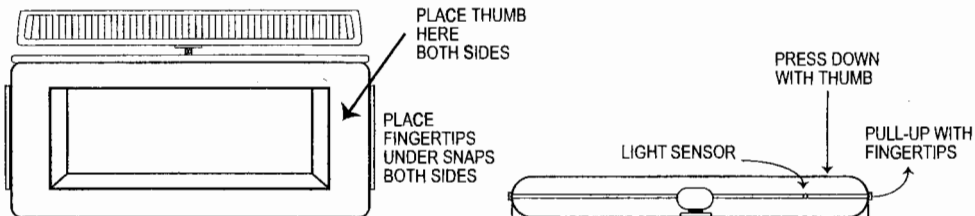
Because the SUN-MATE's solar panel can be oriented in any direction to optimize the capture of the sun's energy, you need not worry about what direction you face the SUN-MATE.

You will want to place your SUN-MATE® in an area where it will be most visible. For best results the area should be sunny. However, if this is not convenient, the panel can be removed and placed remotely in the sun.

You can place your SUN-MATE® in any area that you can securely sink the 16 inch mounting stake (Included) at least 6 inches into the ground. If the spot in which you place your SUN-MATE® is not secure, it is recommended that you sink the mounting stake in concrete to stabilize and secure the area so your SUN-MATE® is firmly placed.

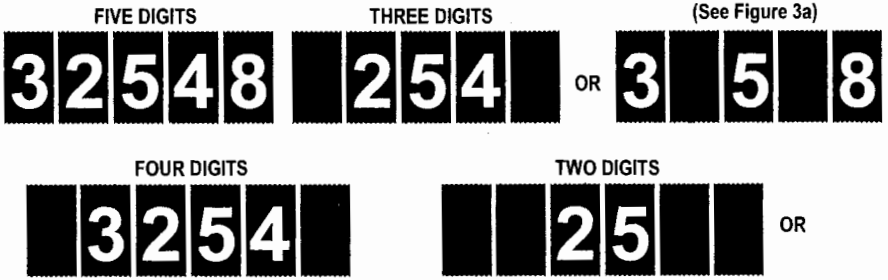
### II. UNPACKING AND SET UP

1. Remove unit from its packing. Gently lift up solar panel.
2. Lay unit flat on table so solar panel and SUN-MATE® are face up.
3. Using your hands, unsnap latches and gently lift cover front face along the side ridges to remove front cover as shown (figure 1).



(FIGURE 1)

4. Select your address numbers from the pack. If you have less than 5 numbers in your address you will also have to use blank cards (figure 2).



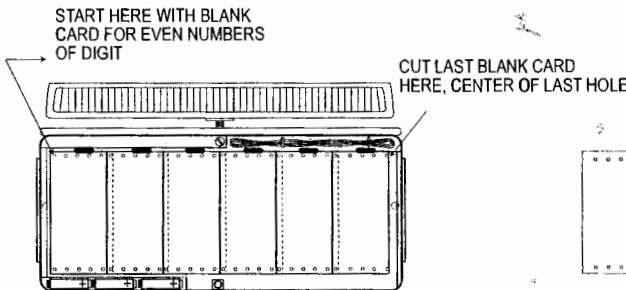
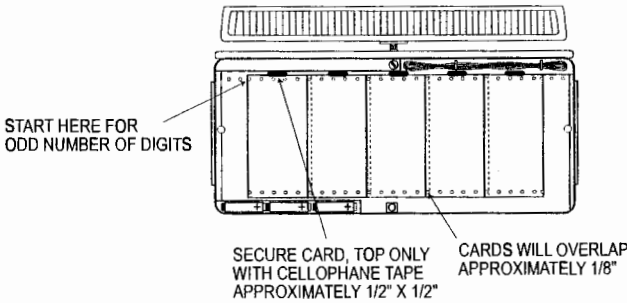
(See Figure 3b)



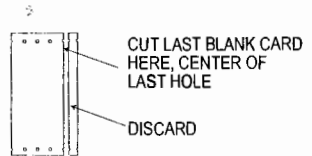
(FIGURE 2)

*Remove the transparent paper before you use.*

5. Fit the address number on the locating pegs of the light box, glossy side facing out as shown (refer to figure 3a or 3b depending on whether you will be using an odd or even number of digits). Adjacent cards should overlap to prevent open spaces. It is suggested that cellophane tape be used to hold the numbers in place during their placement. (Save unused numbers for possible future use).

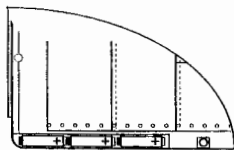


(FIGURE 3a)



(FIGURE 3b)

6. While the SUN-MATE cover is off, place the three (3) rechargeable nickel cadmium AA batteries with the positive (+) ends pointing to the right as shown in Figure 4 below :



(FIGURE 4)

7. Do not closed lid at this time.

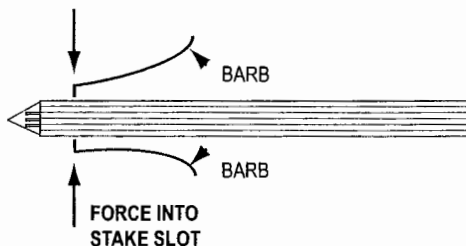
### III. INSTALL AT SITE LOCATION

#### A. Using Mounting Stake

Things that you will need not which is included in kit.

- Small piece of wood (3" x 3") or any other comparable solid material.
- Slotted head screw driver.
- Hammer

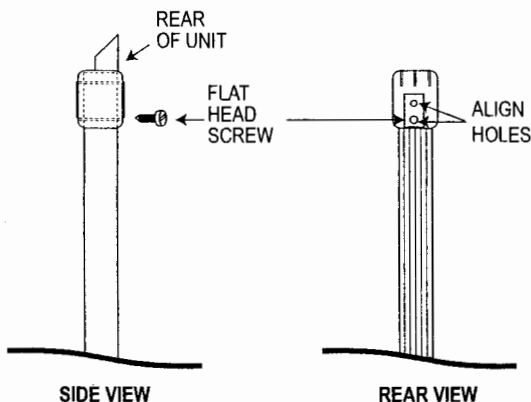
1. Install Stake Barbs. Push or hammer each barb all the way securely into both sides of the stake as shown (figure 5).



(FIGURE 5)

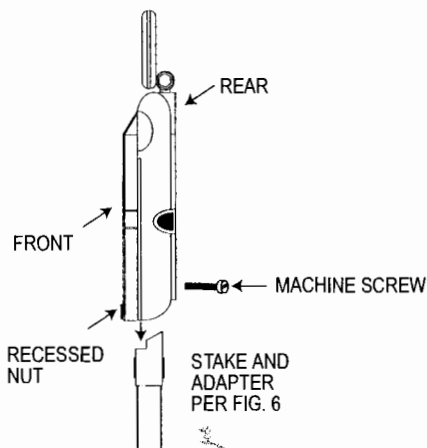
2. Take the theft-resistant stake, and using the small piece of wood as a cushion, hammer the stake at least 6 inches into the ground.

3. Grab hold of stake to make sure it is secure and then place the stake adapter on the stake and secure with flat head screw as shown (figure 6).



(FIGURE 6)

4. Mount SUN-MATE<sup>®</sup> on stake adapter. Secure with 1-11/16" machine screw and recessed nut as shown (figure 7).

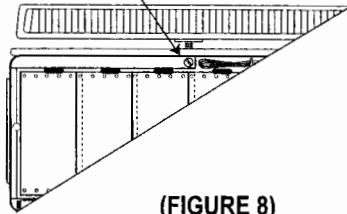


(FIGURE 7)

5. Gently orient the solar panel on top of the SUN-MATE<sup>®</sup> to the right, left, up to down which ever direction is most optimal to face the panel guaranteeing the full impact of the sun's energy to the SUN-MATE<sup>®</sup>. The flat face of the solar panel should directly face the noon-time sun. If the wire connecting the panel to the housing is not long enough to properly adjust the panel, gently pull additional wire through hole in back of SUN-MATE<sup>®</sup>. Be sure to open front face & release the wire.

- Lock panel into position by tightening screw as shown (figure 8).

PANEL LOCKING SCREW



(FIGURE 8)

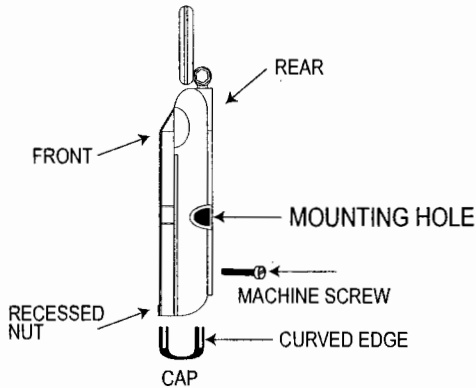
- Align cover carefully on all four sides and squeeze gently on side edges until it snaps securely into place.

## B. Wall Mounting

Things that you will not need which is included in kit :

- Slotted head screw driver.

- Assemble cap in SUN-MATE<sup>®</sup> by using 1 7/16" machine screw and recessed nut (curved edge of cap should be facing rear) and secure as shown (figure 9).



(FIGURE 9)

- Position SUN-MATE<sup>®</sup> and mark mounting locations with hole spacing 14-1/4 inches apart.
- Secure SUN-MATE<sup>®</sup> with 2" self-tapping screws supplied. Do not distort housing by over tightening. **NOTE** : If mounting on surfaces other than wood i.e., cement, brick, etc., use appropriate fasteners other than the supplied self-tapping screws.

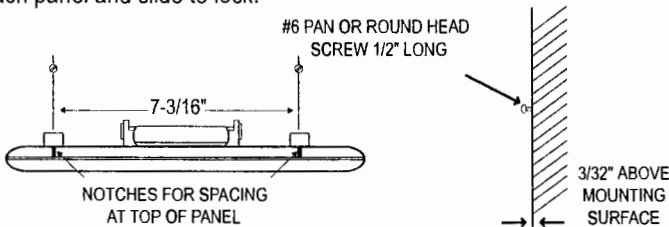
4. Gently orient the solar panel on top of the SUN-MATE<sup>®</sup> to the right, left, up or down which ever direction is most optimal to face the panel guaranteeing the full impact of the sun's energy to the SUN-MATE<sup>®</sup>. The flat face of the panel should directly face the noon-time sun. If this mounting configuration does not make it possible to move the solar panel as mentioned above, please refer to paragraph C for remote panel mounting.
5. Lock panel into position by tightening screw as shown (figure 8).
6. Align cover carefully on all four sides and squeeze gently on side edges until it snaps securely into place.

### C. Remote Solar Panel

In the event that SUN-MATE<sup>®</sup> mounting does not allow the noon-time sun to directly face the panel to gather optimal energy from the sun, the panel may be removed and mounted remotely either horizontally or vertically.

#### Things you will need not included in kit :

- Slotted head screw driver.
  - Two #6 x 1/2" pan or round head screws.
1. With front cover OFF, loosen screw shown in (figure 8) approximately 2 turns, just enough to remove panel and still keep screw intact. There is approximately 8 feet of wire stored inside the SUN-MATE<sup>®</sup>.
  2. After removing panel insert plug (included) into hole on top of unit. Retighten screw to secure plug.
  3. Mount two #6 x 1/2 pan or round head screws 7-3/16 inches apart leaving 3/32" space between each screw head and the mounting surface. To assist in the alignment and spacing of screws refer to notches at top of the solar panel as shown (figure 10). Attach panel and slide to lock.



(FIGURE 10)

4. Align cover carefully on all four sides and squeeze gently on side edges until it snaps securely into place.

### IV. OPERATION

1. After an initial two day charging period in full sun, your SUN-MATE<sup>®</sup> will run all night long on just 1-1/2 hours of full sun each day. Because such a short amount of sun exposure is needed your SUN-MATE<sup>®</sup> is designed to run all night long every night.
2. The SUN-MATE<sup>®</sup> is operated by a light sensor. The light will come on at dark and off during the day.

## V. TROUBLE SHOOTING

If your SUN-MATE® does not function properly, make sure that you have read the above operating instructions then read the note at the end of this booklet, then take the following steps :

1. Examine the SUN-MATE® to make sure that the solar panel is not broken. If so, please refer to warranty enclosed.
2. Make sure that the light sensor (shown in figure 1) is located such that no other light is shining on it after dark -- It must be darkness at night, or the SUN-MATE will "think" that it is still daytime and it will not illuminate.
3. If your SUN-MATE® is placed in too bright an area, it is possible that your SUN-MATE® is illuminated but the lit numerals are not visible due to the intensity of the other light (i.e. street lights, porch lights). If this is the case, relocate the SUN-MATE to a darker area of that its light is effective.
4. Make sure batteries are inserted properly (see figure 4) with correct orientation, free from corrosion at contact points and the red tab is removed.
5. Make sure that the SUN-MATE® solar panel is located where it receives several hours of bright sunshine every day, with the flat face of the solar panel facing the noon-time sun.
6. The unit is designed to circulate air and drain water. Check to make sure drain holes on bottom of the unit and the solar panel are not clogged.
7. If your SUN-MATE is defective, you may return it to SUN-MATE® Corp. If the product is less than 30 days old SUN-MATE® Corp. will replace it free of charge under the warranty. Otherwise, Sun-Mate® Corp will repair or replace your SUN-MATE® for a flat-rate repair fee. Please refer to the closed warranty for further details and address to send repairs.

## REPLACING THE BATTERY

The three (3) standard rechargeable nickel-cadmium AA batteries supplied with your SUN-MATE® Address Light are designed to last for years. When it is time to replace them, you can find them wherever you purchase your other batteries.

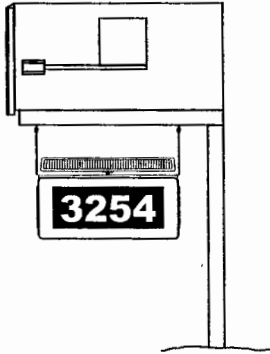
To replace the batteries you :

1. Remove cover as shown in (figure 2).
2. Remove old batteries noting orientating of terminals.
3. Replace with new AA rechargeable nickel cadmium batteries in same orientation as before (Battery tips toward center of unit see figure 4).

**THE ILLUMINATED SOURCE DOES NOT NEED TO BE REPLACED. IT WILL LAST THE LIFETIME OF THE PRODUCT.**

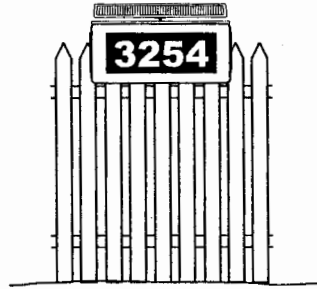
## OPTIONAL MOUNTING SUGGESTIONS

There are many other ways in which you can mount your SUN-MATE. We have included a 16 inch mounting stake for in-the-ground positioning. A longer stake can be made from 1" x 2" lumber or a 1" diameter dowel cut to the desired length. By purchasing the necessary screws and mounting hardware you can also place your SUN-MATE.



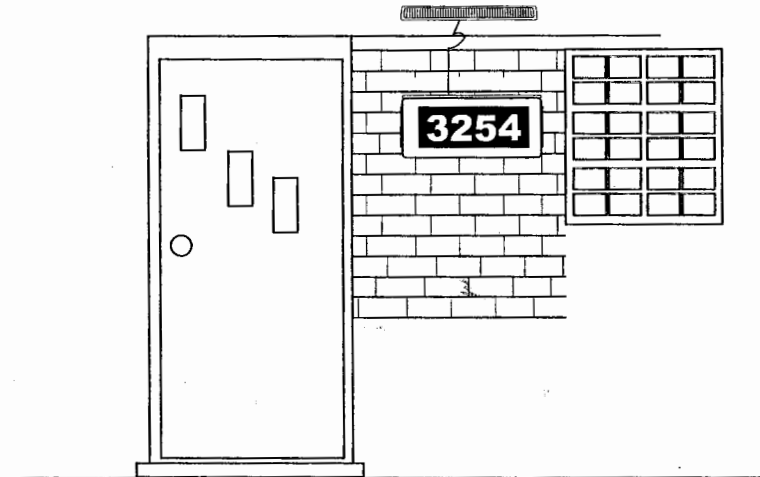
### MAILBOX

THE UNIT CAN BE HUNG WITH TWINE OR WIRE USING THE SOLTS INCLUDED IN THE UNIT.



### FENCE

USING THE WALL MOUNT INSTALLATION



### SOFFIT

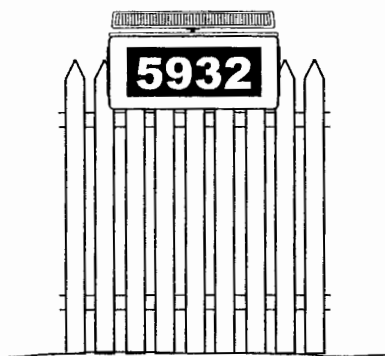
USING REMOTE PANEL MOUNT INSTALLATION

## NOTE ON SOLAR PANELS :

Sun-Mate Corporation's proprietary amorphous silicon photovoltaic solar panel manufacturing technology is one of the finest in the world, producing the most economically efficient solar panels available. The daily performance of the SUN-MATE and any other solar recharged product is directly related to the amount of sun striking the panel. Among the factors which control this are the panel's geographic location, the time of year, the panel's particular setting with respect to the shades that may cover the panel for any period of time, the direction the panel is facing and the angle of its tilt toward the sun, and the degree to which the sky is free of clouds and the air clear of fog and haze. It is due to these factors that SUN-MATE Corp. recommends facing the solar panel at the non-time sun. Other configurations, while still effective, may produce less light each night.



You can customize the sign with your name, address of message.



Each unit includes a number set, or you can order a customized sign panel.



Letters show WHITE at night.

# HERE'S HOW TO CUSTOMIZE YOUR SIGN

## SUN-MATE® ADDRESS SIGN ORDER FORM

Please Print Clearly. This is your mailing label.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
E-mail address \_\_\_\_\_

\*\*\*\*\*

**FILL IN YOUR PERSONAL MESSAGE, NAME, ADDRESS, ETC.**


**MAXIMUM 8 CHARACTERS PER LINE, UP TO TWO LINES.  
THE FEWER NUMBER OF CHARACTERS YOU USE, THE LARGER THEY  
WILL APPEAR BE THE FINISHED SIGN.**

SIGN MAKING CHARGE..... \$15.00  
POSTAGE AND HANDLING..... \$ 6.00  
ADD 8.25% CA SALES TAX IF CA RESIDENT..... \$ \_\_\_\_\_  
TOTAL \$ \_\_\_\_\_

**RETURN THIS CARD WITH YOUR CHECK OR MONEY ORDER PAYABLE TO :**

**SUN-MATE® CORP.**  
Customer Service Department  
8421 Canoga Ave., Canoga Park, CA 91304  
USA

# TROUBLE SHOOTING

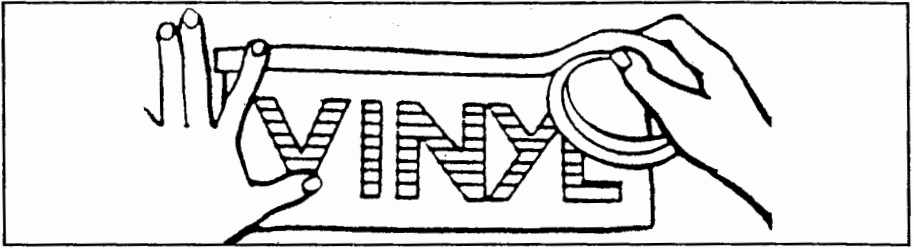
If the solar sign does not work, please check the following :

1. The panel is mounted and exposed to sunlight according to the recommendations in this booklet.
2. The sign itself is mounted in an area that gets totally dark at night. The unit has a light sensor which turns on the unit when it gets dark.
3. If you checked step 1 and 2 and the sign fails to operate : Replace the three AA rechargeable batteries with the new ones, available at any electrical supply store, i.e. Radio Shack, etc.
4. If the sign still does not work after you have replaced the batteries, send it back to us at the address indicated on the warranty card within 30 days from date of purchase. If you have not yet done so, send in your Warranty Card as well as a proof of purchase.

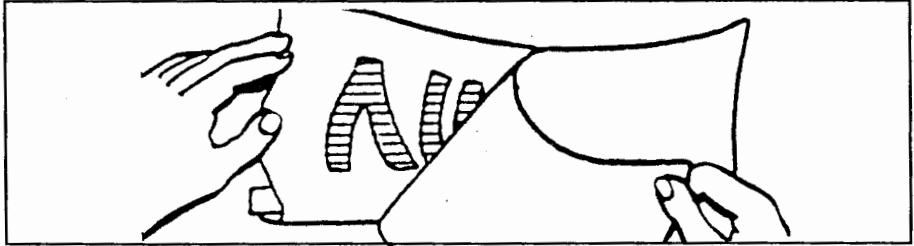
**NOTE :** Although we use the best available components and batteries, Sun-Mate's warranty does not cover the batteries.

**DO NOT THROW AWAY THE PACKAGING MATERIALS UNTIL YOU HAVE SIGN IN GOOD WORKING CONDITION.** Some parts and accessories are included in the foam package.

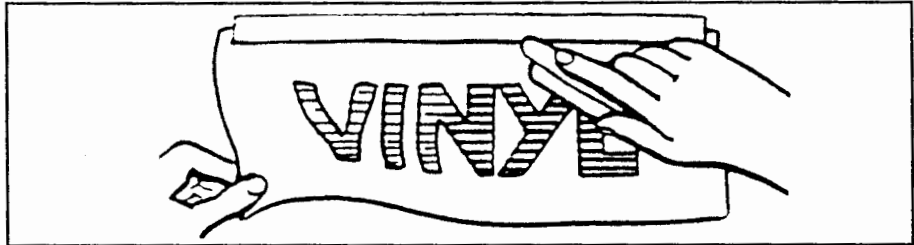
# IT'S EASY !



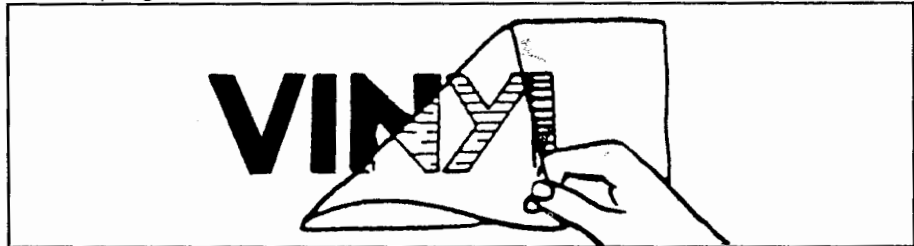
1) Position marking where desired and secure in place with masking tape across top or end of marking. This will act as a hinge for the following steps :



2) Raise marking up on hinge and carefully remove backing paper to expose adhesive backing. *Caution* : Do not let marking come in contact with the surface at this time.



3) Gently lower marking towards surface and squeegee it down, working from the top-center out towards each end. Make sure the squeegee presses the marking firmly to the surface. Let the squeegee do the work.



4) After the marking has been applied, remove the covering tape by peeling it back slowly at an angle of 180° to the surface. In just a few minutes, you have completed a professional, customized graphic application. Any small bubbles will disappear within a few days or may be removed by puncturing with a pin or sharp point of a knife and pressing-out trapped air.

# LIMITED WARRANTY

If this product should prove defective in workmanship or material during the 30 days period from the date of original purchase at retail, the same may be replaced by either the Seller or SUN-MATE CORPORATION. SUCH REPLACEMENT SHALL BE THE SOLE REMEDY OF THE CONSUMER, AND THERE SHALL BE NO LIABILITY ON THE PART OF THE MANUFACTURER, DISTRIBUTOR, OR SELLER FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR INABILITY TO USE THIS PRODUCT. Some states of the United States do not allow the exclusion of incidental or consequential damages, so the above 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 in the United States, Puerto Rico or from province to province in Canada. In the United States, Contact : Consumer Relations Dept., Sun-Mate Corp., 8421 Canoga Ave., Canoga Park, CA 91304 USA

## WARRANTY REGISTRATION CARD

Item Purchased : \_\_\_\_\_

Location Purchased : \_\_\_\_\_ Date : \_\_\_\_\_

Name : \_\_\_\_\_

Address : \_\_\_\_\_

City : \_\_\_\_\_ State : \_\_\_\_\_ Zip : \_\_\_\_\_

E-mail : \_\_\_\_\_

Comments : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Cut Out and Mail to :

**SUN-MATE CORP.**  
Consumer Relations Dept.  
8421 Canoga Ave, Canoga Park, CA 91304

You can also register on line at : [www.sun-mate.com](http://www.sun-mate.com)