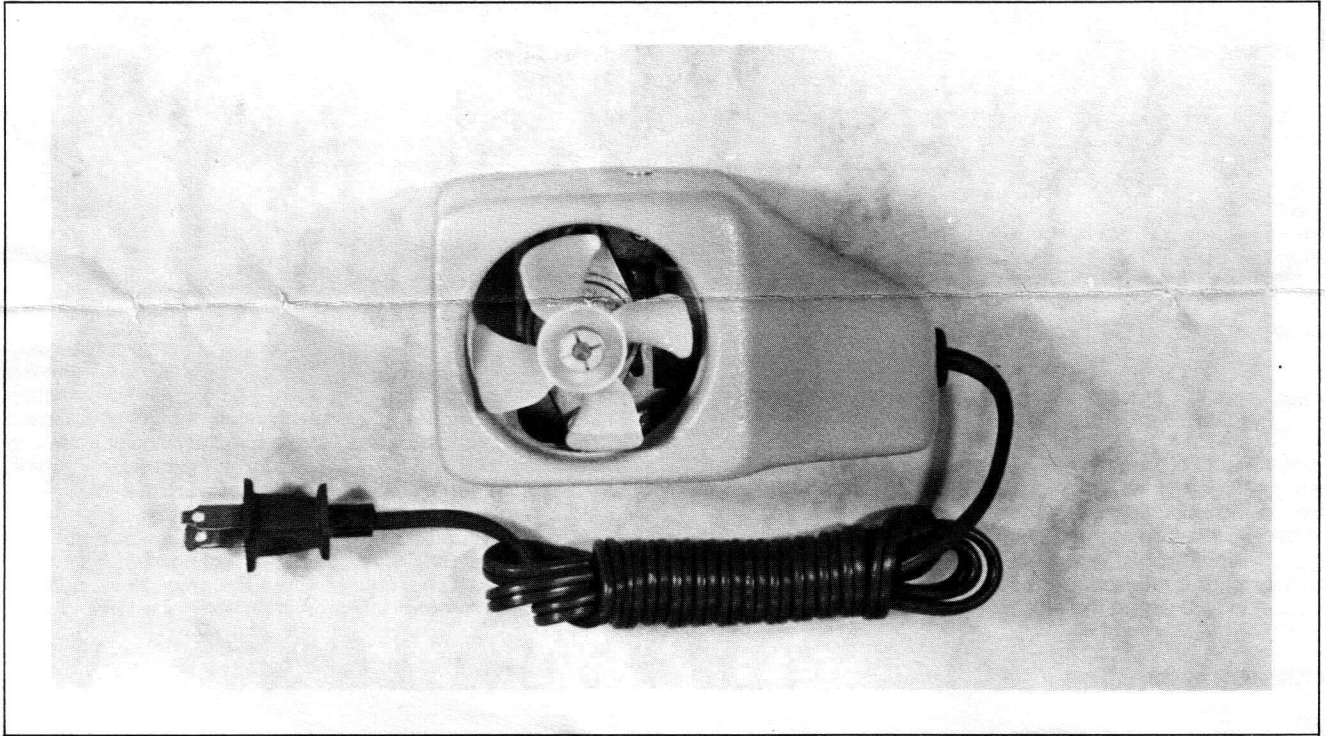# SUP'R'FAN

A Quiet Fan That Fits Inside the Apple II and is Powered by 117VAC

FEATURES

- Fits inside the Apple II Case
- Powered by 117VAC and Does Not Depend on the Apple Power Supply
- Brushless AC Motor for No Electrical Noise
- Does Not Interfere With All Present Apple Peripherals
- Mounts With One Screw—No Drilling Required
- Will Not Interfere With Magnetic Media Such As Metal Cased Monitors Or Disks In Close Proximity (Less Than ½ Gauss)
- Lowers IC Surface Temperatures
- Weighs Only 18 oz.

Apple II is a trademark of Apple Computer Inc.

• PREPARATION

TOOLS— In order to place your Sup'R'Fan into the Apple you will need a small screw driver and a pair of scissors.

It is important to relocate the Sup'R'Mod properly. If the Sup'R'Mod is mounted in your Apple, carefully pry off the unit from the adhesive tape backing. This may be difficult, due to dried out adhesive tape, so proceed slowly to avoid breaking the fragile Sup'R'Mod PC board. Some of the tape might be left on the inside of your Apple case. This should be removed by scraping it off.

• REMOUNTING THE SUP'R'MOD

Look at Figure 1 to see the new placement of the Sup'R'Mod. First place the new green back adhesive tape, supplied with your fan, on the back of the Sup'R'Mod. Now insert the video RCA cable into the side of the Sup'R'Mod per the figure. Be careful that the RCA cable is placed between the four pin molex connector and the Apple video jack. Run the video cable out the second I/O port in the rear.

• AIR FLOW PREPARATION

To improve the fans efficiency, please use the vinyl strips supplied with your fan.

Referring to Figure 2 cut pieces of vinyl strips as shown in the figure for areas 1 and 2. Area 1 is a 3¼" long strip that attaches under your Apple. Area 2 requires two strips each 2¼" long that attach inside the case. Area 3 is the first three slots from the right and are covered if not in use.

• FAN TEST

Before mounting your new fan inside the Apple, you should make sure it will run correctly. Holding the small end of the case, and keeping your fingers away from the blade, plug the cord into wall outlet. The fan should run quietly and smoothly. If it does not, refer to the "In Case of Difficulty" section.

• MOUNTING THE SUP'R'FAN

First remove screw from back of the fan then place the fan inside your Apple referring to Figure 2. Route the AC cord out the first I/O slot (same as paddle cord slot). Locate the sixth ventilation slot from the front of the Apple, see Figure 3, and place the screw in the lowest possible position. Make sure the nylon washer is on the outside. This will prevent your Apple case from getting scratched. Tighten the screw into the fan bracket firmly.

Plug the Sup'R'Fan into 117VAC. We recommend you put your system on a multiple plug strip that has one power switch. In this way you can turn your entire system on with one switch. These are available at your local home improvement center.
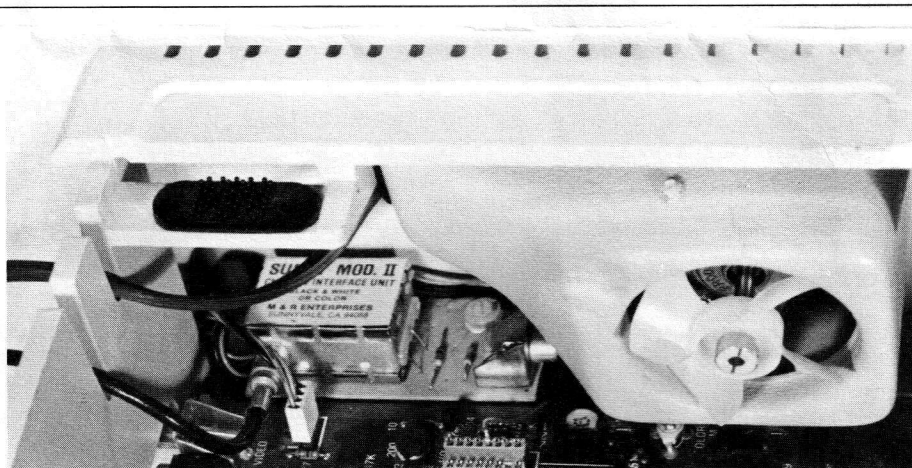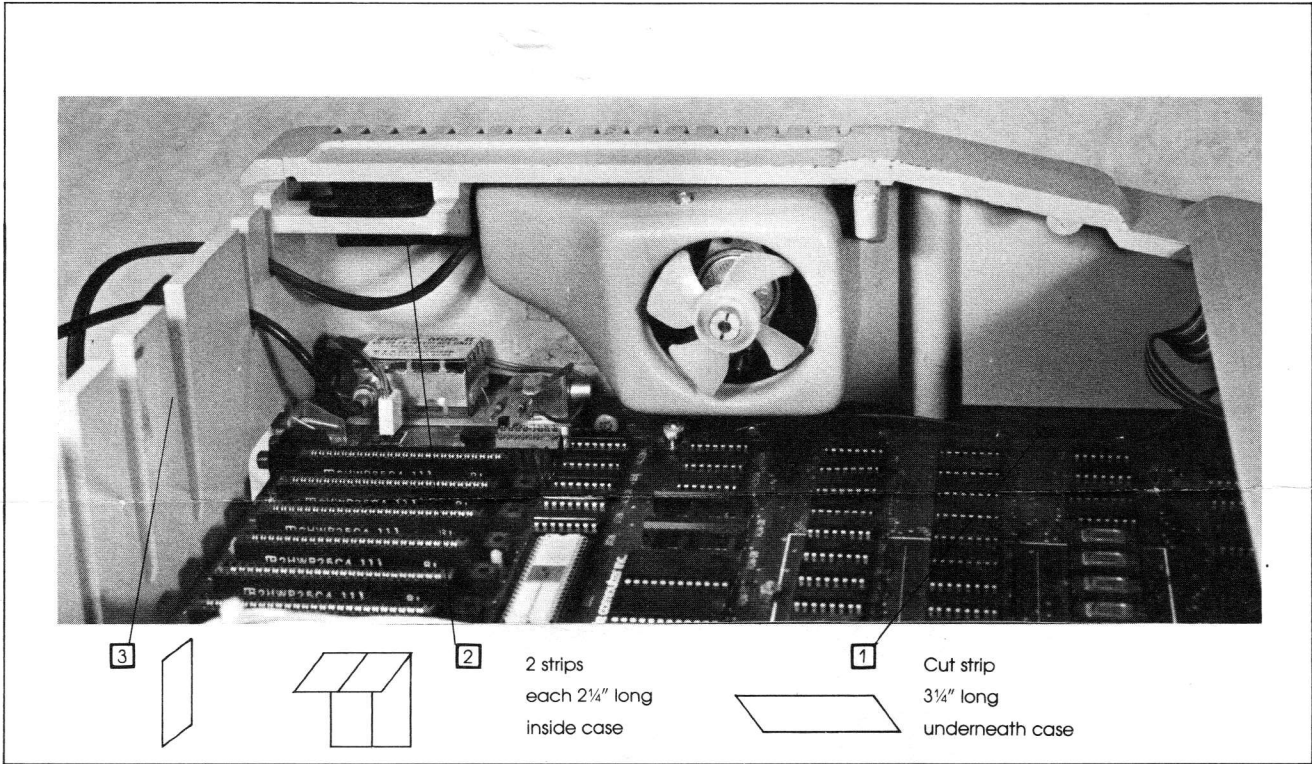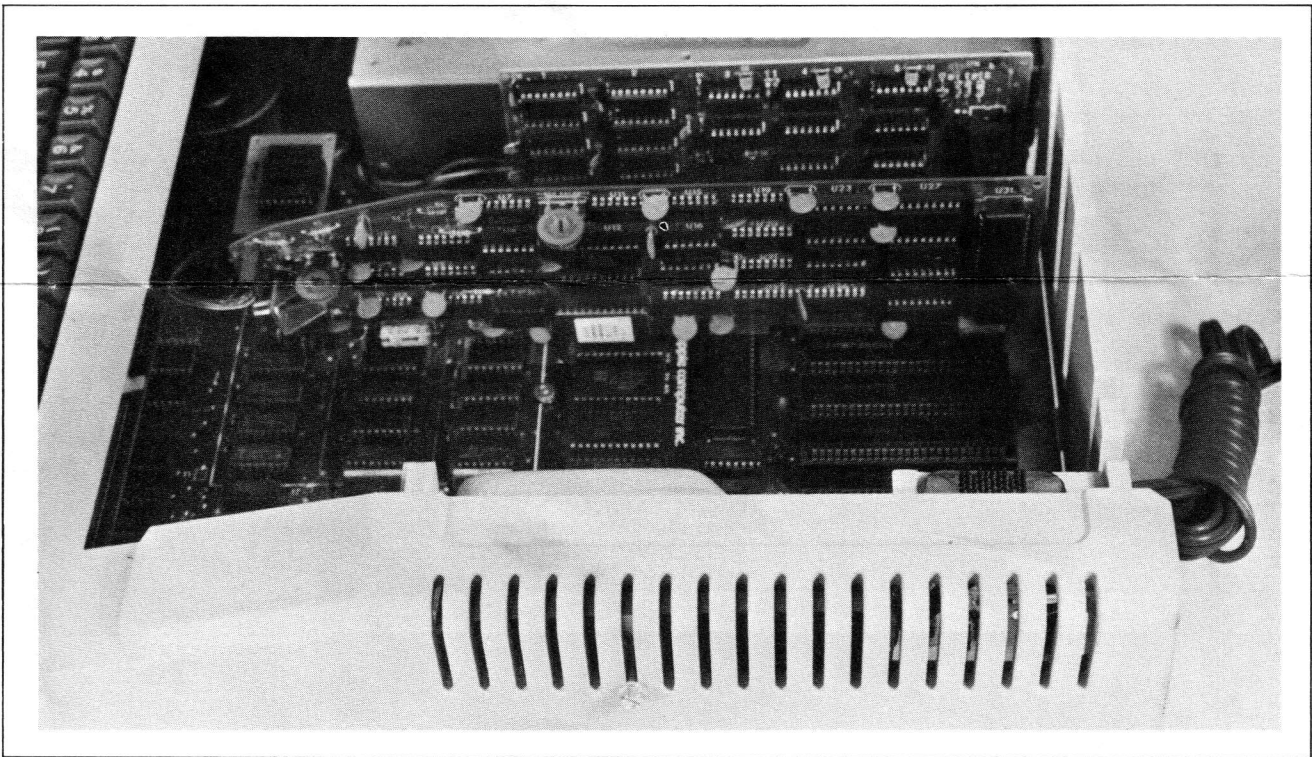

Figure 1

3 | 2 | 2 strips
each 2¼" long
inside case

1 | Cut strip
3¼" long
underneath case

Figure 2

Figure 3

In Case of Difficulty

Symptom	Cure
1. Fan does not turn—	☐ Check to see if you are plugged into a good AC outlet. ☐ Make sure the blade of the fan is not pushed down and cannot turn because it is being stopped by the internal motor screw. If it is, the fan blade can be backed off by prying up with a screwdriver until the blade is about ⅛" off the end of the shaft.
2. Blade noisey, hitting shroud—	☐ Check to see if blade is centered in shroud hole. If not, correct by applying pressure with your thumb on the shaft away from the off center direction.
3. Rattling shroud—	☐ Make sure all screws are tight.
4. Shaft noise—	☐ Let the fan run for a few hours to seat the bearings. This noise may occur with some new motors.
5. Smoke, sparks, or loose wires—	☐ Send unit back immediately to: M & R Enterprises 285 Sobrante Way—Unit E Sunnyvale, CA 94086
6. Oil dripping—	☐ Occasionally a felt pad in the fan is over-oiled and may drip. This oil is not harmful to your computer, but we recommend that you remove the fan from your computer, clean the oil and let the fan run outside the computer for a day to make sure it doesn't continue to drip.