1200 Diamond Cir.





#### Owner's Manual **First Edition**

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to the product described in this manual at any time without previous notice. Sequential Systems reserves the right to make changes and to issue updates

Apple IIGS is a trademark of Apple Computer, Inc.

## Table of Contents

Introduction

2

RAM-GS plus Description

- 3. RAM-GS plus Installation
- RAM-GS plus Diagnostic Test Program

Thank you for purchasing Sequential Systems' RAM-GS plus TM card. Your satisfaction is important to us, so we offer these three simple assurances:

# ALL SEQUENTIAL SYSTEMS

products are guaranteed free from defects in materials and workmanship and are warranted for two full years from the date of purchase. Sequential Systems, Inc. will promptly replace any product shown to be defective during this warranty period.



ALL SEQUENTIAL SYSTEMS PRODUCTS include FREE technical support.

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PRODUCTS are designed and built in the





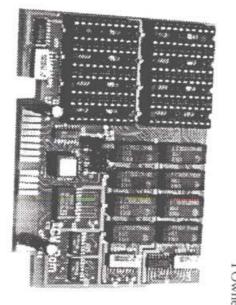
# Sequential Systems' RAM-GS™ card

The RAM-GS plus is a main-memory expansion board for use with Apple Computer Inc.'s Apple IIGS personal computer. RAM-GS plus comes with 4 MegaBytes of standard memory and is expandable to 8 MegaBytes in 1 MegaByte increments. The board is expanded using 1Meg by 4 DRAM's in a DIP package. The printed circuit board is of multi-layer construction with inner power and ground planes for noise immunity. RAM-GS plus is fully compatible with all IIGS software and supports high-speed DMA memory access.

#### Package Contents

# Each RAM-GS plus Package should contain:

1 RAM-GS Memory Board 1 Utilities Diskette 1 Owner's Manual



Static discharge can damage the memory on your RAM-GS plus. Take care to ground yourself before handling the memory board. One way to do this is to touch the small screws on any light switch.

STATIC DISCHARGE!

BE CAREFUL OF

1. Place your RAM-GS plus in front of you and orient it so that the component side is up and the gold edge connector is toward you. Make sure that the small jumper block in the lower right hand corner of the board is installed correctly. The jumper should be on both pins (connected) for 4 MEG boards and only on one (disconnected) for 2 MEG boards.

CAUTION! Disconnect power to the computer before proceeding!

- 2. Remove the cover from your Apple // GS *plus* computer by depressing the two vertical tabs at the rear of the machine and simultaneously lifting the cover upward.
- 3. Locate the connector marked "Memory Expansion" to the right and front on the computer logic board

- should dock with the slot quite easily so gold edge connector and gently but firmly do not apply excessive force. pressing the card into the slot. The card expansion slot by aligning the slot with the 4. Install the RAM-GS plus in the
- with the front edge of the computer and aligning the lower, front edge of the cover pressing the cover downward Replace the cover on your IIGS by
- IIGS computer. Reconnect power cord to your Apple-
- replacement.) or write Sequential Sytems for drive. (If you only have a 5.25" drive call Diagnostic Diskette into you 3.5" floppy Insert the supplied RAM-GS plus
- the diagnostic diskette. **BOOT** the Test Diskettel NOTE: For proper operation, you must Power-ON your computer and "boot"

a description of the memory diagnostic now complete. Proceed to Section 4 for Installation of your RAM-GS plus is

1-800-999-1717 When all else fails....

10

### Program

The RAM-GS Diagnostic Test Program.

RAM-GS plus fail to function properly. This of diagnosing memory failures should your the program. section describes the use and function of diskette containing a test program capable Included with your RAM-GS plus is a 3.5'

TO RUN THE SELF TEST FROM THE ON machine power. IF YOU ATTEMPT FINDER YOUR SYSTEM WILL HANG. inserting in the 3.5" drive and turning You must "BOOT" the Test diskette by

The Main Menu includes the following

- Standard Memory Test.
- Memory Refresh Test.
- 3. Unique Address Test.
- 4. Exit to BASIC.
- Exit to System.

ARROW keys then execute by pressing Select a Menu item using the UP & DOWN "RETURN".

> Program Using the Test

#### Standard Memory Test

The standard memory test will perform basic functionality tests on the RAM-GS pillus memory. This test has two run modes: Regular memory test executes ome complete test on the memory. Extended memory test executes continuously until interrupted with a keystroke. If a memory error is detected, am "X" will appear over the failed DRAM.

# Memory Refresh Test

The memory refresh test checks the miemory's ability to retain data over longer periods of inactivity. If a memory error is detected, an "X" will appear over the failed DIRAM.

## Unique Address Test

"The unique address test checks the memory for "uniqueness" of individual locations. A failure will be indicated with am error message.

#### Exit to BASIC

Selecting "Exit to BASIC" will return cointrol to the BASIC system.

### Exit to System

Selecting "Exit to System" will return control to the PRODOS operating system.

14

16				
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