

**HP 1000
M/E/F-Series Computers
Engineering and Reference
Documentation**

PRINTING HISTORY

The Printing History below identifies the Edition of this Manual and any Updates that are included. Periodically, Update packages are distributed which contain replacement pages to be merged into the manual, including an updated copy of this Printing History page. Also, the update may contain write-in instructions.

Each reprinting of this manual will incorporate all past Updates, however, no new information will be added. Thus, the reprinted copy will be identical in content to prior printings of the same edition with its user-inserted update information. New editions of this manual will contain new information, as well as all Updates.

To determine what manual edition and update is compatible with your current software revision code, refer to the appropriate Software Numbering Catalog, Software Product Catalog, or Diagnostic Configurator Manual.

First Edition	Jun 1979	
Second Edition	Mar 1981	Revised to incorporate Floating Point Processor information, add new memory system elements, add new power supply information, and update all sections to reflect the latest date codes.

NOTICE

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PREFACE

This manual is the Engineering and Reference Document for the Hewlett-Packard HP 1000 M, E, and F-Series Computers. Similar information for the L-Series computer is contained in the HP 1000 L-series Computer Engineering and Reference Document, part number 02103-90009.

The M-Series and E-Series Computers were first introduced by Hewlett-Packard as models 21MX M-Series and 21MX E-Series computers, and later changed the model designations to HP 1000 M-Series and HP 1000 E-Series. Therefore, any references to HP 1000 or HP21MX in this or related publications are synonymous.

This document contains the theory of operation, schematics, and parts list for the HP 1000 M, E, and F-Series Computers and Accessories. In addition, this document contains power, assembly, and ventilation information relative to the 2108MK and 2109EK board computers. The major divisions of this are:

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Assembly and Schematic Diagram Cross Reference Index

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HARDWARE HISTORY LIBRARY. This manual may be ordered separately by part number or as part of the HP 92851A Hardware History Library (HHL) product. The HHL contains, in addition to this manual, a Hardware and Manual Index Log, which provides a current index to all hardware manuals. It also includes engineering change descriptions for many of the HP 1000 hardware and firmware products, and with instructions on how to perform the actual modifications. Historical information on important product changes is included on the current Data Systems Service Note Microfiche furnished with the HHL.

HARDWARE NOTIFICATION SUBSCRIPTION SERVICE. The HP 92851Q Hardware Notification Subscription Service provides updates to the HHL, including updates to this manual as they become available.

IC PART NUMBER NOTICE

Many of the schematic diagrams and parts lists contain the generic part number of the IC packs. These are for your convenience in referring to pack diagrams and general operating conditions in semiconductors manufacturers catalogs. However, the generic number should not be used to order replacement parts. Many parts used in Hewlett-Packard equipment are purchased with special specifications and tolerances, or may undergo special testing and treatment (such as burn-in). Therefore, replacement parts must be ordered using the Hewlett-Packard part number to ensure that the replacement part will restore the equipment to its original operating condition.

HP 1000 M, E, and F-SERIES COMPUTERS
ENGINEERING AND REFERENCE DOCUMENTATION
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