



# HP 3000 SERIES II COMPUTER SYSTEM SERVICE MANUAL INDEX

## INTRODUCTION

This index has been prepared to aid customer engineers and other service personnel in identifying system, subsystem, and peripheral installation and maintenance manuals available for Series II systems.

The index consists of two parts:

1. Cross Reference List
2. Service Manual List

The Service Manual List catalogues the name and part number of all Series II manuals under the product number with which they are associated. System level manuals are listed first followed by sub-system and peripheral manuals grouped under a common product number. Products that are part of a subsystem are listed under the subsystem product number.

The Cross Reference List is provided so that you can find a manual pertaining to a particular product whether it is listed under its own product number or the product number of the subsystem with which it is associated.

## HOW TO USE THE INDEX

### EXAMPLE I

To demonstrate the association of several products used in a subsystem look for the following product numbers in the left (Product No.) column of the Cross Reference List. Notice that the right (Refer To) column is common. Look for 13037A, 7905A, 30129A, 30329A, and 30329A in the left column and the right column is 30129A for all of them.

Now if you scan the Service Manual List until you come to 30129A you can see that all of the manuals for those products including diagnostics are listed together by part number.

### EXAMPLE II

Products that are not part of a subsystem or part of the basic system (i.e., the CPU or Memory) will have the same product number in both the left and right columns. In the Cross Reference List find the 2762A/B. Notice that the right column also is 2762A/B. Now looking at the 2762A/B in the Service Manual List it shows the pertinent 2762A or B manuals and also refers you to the

30032B Asynchronous Terminal Controller manuals.

**EXAMPLE III**

Products that are part of the basic Series II system are documented in system level manuals (i.e., System Service Manual, System Signal and Power Distribution Manual, etc.). When you are looking up products of this type you will be directed to system level manuals which are located in the beginning service manual list under the subheadings of System Manuals and System Diagnostics. As an example, look up to 29402B and 30003A.

HP 3000 SERIES II COMPUTER SYSTEM  
CROSS REFERENCE LIST

Product Number	Description	Refer to following Product Number in Service Manual List
2600A	CRT Terminal	2600A
2607A	30118A Line Printer	30209A
2610A	Line Printer	30108A
2613A	30127A Line Printer	30209
2614A	Line Printer	30109A
2615A	CRT Terminal	2615A
2617A	30133A Line Printer	30209A
2618A	30128A Line Printer	30209A
2640A	Display Terminal	2640A
2644A	Display Terminal	2644A
2660A	Fixed Head Disc	30103A
2748B	Paper Tape Reader	30104A
2749B	Console Terminal (TTY)	2749B
2762A/B	Printer/Terminal	2762A
2888A	Disc File	30102A
2893A	Card Reader	30106A
2894A	Card Reader Punch	30119A
2895A	Paper Tape Punch	30105A
2950A	Card Reader	30107A
7900A	Cartridge Disc	30110A
7905A	Disc Drive	30129A
7970B/E	Nine Track Magnetic Tape	30115A
13037A	7905A Disc Controller	30129A
13215A	7900A Cartridge Disc Power Supply	30110A
29402B	System Cabinet	System Manuals
29425A	7905 Disc Cabinet	30129A
30003A	Series II CPU	System Manuals
30007A/8A/9A	Series II Fault Correcting Memory	System Manuals
30012A	Series II Extended Instruction Set	System Manuals
30030B	Selector Channel	System Manuals
30031A	System Clock	System Manuals
30032B	Asynchronous Terminal Controller	30032B
30036A	SIO Multiplexer	System Manuals
30050A	Universal IF (TTL)	30050A
30051A	Universal IF (DIFF)	30051A
30055A	Synchronous Single Line Controller	30055A
30061A	Terminal Controller	30032B
30102A	2888A Disc File	30102A
30103A	2660A Fixed Head	30103A
30104A	2748B Paper Tape Reader	30104A
30105A	2895B Paper Tape Punch	30105A
30106A	2893A Card Reader	30106A
30108A	2610A Line Printer	30108A
30109A	2614A Line Printer	30109A
30110A	7900A Cartridge Disc	30110A
30115A	7970B/E Magnetic Tape	30115A
30118A	2607A Line Printer	30209A

30119A	2894A Card Reader Punch	30119A
30127A	2613A Line Printer	30209A
30128A	2618A Line Printer	30209A
30129A	7905A Cartridge Disc	30129A
30133A	2617A Line Printer	30209A
30202A	2888A Disc File	30102A
30203A	2660A Fixed Head Disc IF	30103A
30204A	2748B Paper Tape Reader IF	30104A
30205A	2895A Paper Tape Punch IF	30105A
30206A	2893A Card Reader IF	30106A
30209A	2607A/13A/17A/18A Line Printer IF	30209A
30210A	7900 Cartridge Disc IF	30110A
30215A	7970B/E Magnetic Tape IF	30115A
30219A	2894A Card Reader Punch IF	30119A
30229A	7905A Cartridge Disc IF Kit	30129A
*30300B	Programmable Controller (BCS)	30300B
*30301B	Programmable Control (RTE)	30301B
30310A	Power Supply	System Manuals
30311A	Semi Conductor Memory Power Supply	System Manuals
30312A	Power Supply +5 VDC	System Manuals
30325A	2660A Fixed Head Disc Power Supply	30103A
30329A	7905A Add-On Disc Drive	30129A
30330A	2888A Disc File PCU	30102A
30331A	2888A Disc File Junction Panel	30102A
30333A	2888A Disc Pack	30102A
30354A	Series II Maintenance Panel	System Manuals
*30361A	Programmable Controller IF (BCS)	30300B
*30361A-001	Programmable Controller IF (RTE)	30301B
30408A	Model 5 or 7 to Model 9 Upgrade Kit	System Manuals
30409A	Pre-Series II to Series II Upgrade Kit	System Manuals
30411A	Add-On Memory Upgrade Kit	System Manuals

\*All service manuals associated with the Programmable Controller are listed under 30300B/30301B.

HP 3000 SERIES II COMPUTER SYSTEM  
SERVICE MANUAL LIST

SYSTEM MANUALS

System Reference Manual	30000-90020
System Block Diagram	30000-90058
Provides a detailed technical description of the architecture and principles of operation of the HP 3000 Series II Computer System.	
Site Preparation Manual	30000-90016
Site Planning Workbook	30000-90017
These two documents, along with your guidance, help your customer prepare his site for installation of an HP 3000 Series II Computer System.	
System Installation Manual	30000-90019
Provides system installation procedures for Series II Models 5, 7, and 9.	
System Support Log	03000-90117
Contains installation and configuration records, available support services, preventive maintenance procedures. In addition, it contains sections for historical, repair, and change records.	
System Signal and Power Distribution Manual	30000-90021
Describes physical features of system including card cage and PCA complement; routing of data and control signals; DC and AC power distribution; system power supplies and battery care.	
System Service Manual	30000-90018
The System Service manual contains verification procedures, troubleshooting information, maintenance procedures, and 30354A maintenance panel operating procedures.	
Customer Support Handbook	5951-5647
The Customer Support Handbook is a troubleshooting aid and contains a collection of frequently used system and subsystem data.	
Machine Instruction Set Reference Manual	30000-90022
Describes each of the 209 machine instructions called and executed by the Series II CPU.	
System Microprogram Listing	30000-90023
Contains the system Look-up Table,	

Microprogram Listing, Extended Instruction  
Set Listing, and the Microprogramming  
Language description.

29400B Series Cabinets Installation and Service Manual	02940-90256
29400B Series Cabinets Supplement for HP 3000 Systems	02940-90258
30408A Series II Upgrade Kit Installation Guide (Model 5 or 7 to Model 9)	30408-90001
30409A Upgrade Kit Installation Guide (Pre-Series II to Series II)	30409-90001
30411A Series II Add-on Memory Kit Installation Guide	30411-90001

SYSTEM DIAGNOSTICS

NOTE: Simplified operating procedures  
for all stand-alone diagnostics  
are contained in the System  
Service Manual, part no.  
30000-90018.

Stand-Alone Diagnostic Utility Program II (SDUPII)	03000-90125
SLEUTH	03000-90123
30003A CPU (D420)	30003-90001
30008A Fault Correcting Memory (D430)	30008-90001
30012A EIS (D431)	30012-90001
30030B Selector Channel (D429)	30030-90011
30031A System Clock (D425)	30031-90008
30032B Terminal Data IF (D427)	30032-90011
30036A MUX Channel (D422)	30036-90001
30061A Terminal Controller (D438)	30061-90003
Microdiagnostics	30000-90018
CPU Register Test	(System Service
Memory Test	Manual, Appen-
I/O Test	dix B)

SUBSYSTEM/PERIPHERAL EQUIPMENT MANUALS

2600A Keyboard-Display Terminal  
02600-90001 Maintenance Manual  
03000-90123 SLEUTH  
Refer to 30032B for interface manuals

2615A CRT Terminal  
02615-90004 Service Manual  
02615-90013 Illustrated Parts Breakdown  
30122-90005 Verification Program Manual (D478)  
Refer to 30032B for interface manuals

**2640A System Console**  
 02640-90012 Installation and Service Manual  
 30000-90056 Verification Program Manual (D469)  
 Refer to 30032B for interface manuals

**2644A System Console**  
 02644-90002 Installation and Service Manual  
 03000-90129 Verification Program Manual (D477)  
 Refer to 30032B for interface manuals

**2749B Teleprinter Set**  
 02749-90043 Operating and Service Manual  
 03000-90123 SLEUTH  
 Refer to 30032B for interface manuals

**2762A/B Printer/Terminal**  
 02762-90001 2762A Service Manual  
 02762-90031 2762B Service Manual  
 02762-90034 2762A/B Parts Breakdown Manual  
 30120-90007 Verification Program Manual (D475)  
 Refer to 30032B for interface manuals

**30032B Asynchronous Terminal Controller (IF)**  
 30032-90004 Maintenance Manual  
 30032-90011 Terminal Data Interface Diagnostic  
 Manual (D427)  
 30061-90004 Terminal Controller Diagnostic  
 Manual (D438)

**30050A Universal Interface (TTL)**  
 30050-90001 Maintenance Manual  
 30050-90012 Diagnostic Manual (D435)

**30051A Universal Interface (Differential)**  
 30051-90001 Maintenance Manual  
 30050-90012 Diagnostic Manual (D435)

**30055A Synchronous Single-Line Controller**  
 30055-90001 Maintenance Manual  
 30055-90008 Diagnostic Manual (D434)

**30102A Disc File (2888A) Subsystem**  
 30102-90001 Maintenance Manual  
 30102-90015 Diagnostic Manual (D423)  
 02888-90001 Maintenance Manual  
 02888-90005 Parts Breakdown Manual  
 30330-90001 Power Control Unit Maintenance Manual  
 30333-90001 Disc Pack Manual



30103A Fixed Head Disc (2660A) Subsystem  
     30103-90001 Maintenance Manual  
     30103-90015 Diagnostic Manual (D428)  
     30325-90001 Disc Drive Power Supply Operating  
                     and Service Manual  
     02660-90001 Disc Drive Operating and Service Manual

30104A Tape Reader (2748B) Subsystem  
     30104-90001 Maintenance Manual  
     03000-90123 SLEUTH  
     02748-90032 Tape Reader Operating and Service Manual  
             Refer to 30050A for interface manuals

30105A Paper Tape Punch (2895B) Subsystem  
     30105-90001 Maintenance Manual  
     03000-90123 SLEUTH  
     02895-90008 Paper Tape Punch Operating and  
                     Service Manual  
             Refer to 30050A for interface manuals

30106A Card Reader (2893A) Subsystem  
     30106-90001 Maintenance Manual  
     30106-90008 Verification Program Manual (D465)  
     02892-90001 2892A/2893A Operating and Service Manual

30108A Line Printer (2610A) Subsystem  
     30108-90001 Maintenance Manual  
     30209-90007 Verification Program Manual (D466)  
     02610-90001 Service Manual  
     02610-90005 Reference Manual  
     02610-90006 Parts Identification Manual  
             Refer to 30051A for interface manuals

30109A Line Printer (2614A) Subsystem  
     30109-90001 Maintenance Manual  
     30209-90007 Verification Program Manual (D466)  
     02614-90001 Operating and Service Manual (Controller)  
     02614-90006 Operating and Service Manual  
                     (Printed Head Assembly)  
     02614-90011 Operating and Service Manual  
                     (Print Head Assembly Option 001)  
     02614-90013 Operating and Service Manual  
                     (Controller Option 001)  
             Refer to 30051A for interface manuals

30110A Cartridge Disc (7900A) Subsystem  
     30110-90001 Maintenance Manual  
     30110-90012 Diagnostic Manual  
     07900-90002 Operating and Service Manual  
     13215-90003 Power Supply Maintenance Manual

30115A Magnetic Tape (7970B) Subsystem  
30115-90001 Maintenance Manual  
30115-90014 Diagnostic Manual (D433)  
07970-80383 7970B Magnetic Tape Maintenance Manual  
07970-90765 7970E Magnetic Tape Maintenance Manual  
13194-90003 13194A Multi-Unit Cable Maintenance  
Manual

30119A Card Reader/Punch (2894A) Subsystem  
30119-90003 Installation and Service Manual  
30119-90010 Verification Manual (D479)  
02894-90004 Service Manual  
02894-90005 Diagrams Manual (without keyboard)  
02894-90006 Diagrams Manual (with keyboard)  
Refer to 30050A for interface manuals

30129A Cartridge Disc (7905A) Subsystem  
30129-90003 Installation and Service Manual  
30129-90007 Diagnostic Manual (D419)  
07905-90007 Installation and Service Manual  
13037-90006 Controller Installation and Service  
Manual  
29425-90001 29425A Cabinet Installation and  
Service Manual  
40018-90002 40018A Plenum Assembly Installation and  
and Service Manual

30209A Line Printer Subsystems  
30209-90006 Installation and Service Manual for the  
following Line Printer Subsystems:  
30118A (2607A)  
30127A (2613A)  
30128A (2618A)  
30133A (2617A)  
30209-90007 Verification Program Manual (D466)  
02607-90003 2607A Service Manual  
02613-90001 2613A Service Manual Volume I  
02613-90002 2613A Service Manual Volume II  
02617-90901 2617A Service Manual volume I  
02617-90902 2617A Service Manual Volume II  
02618-90001 2618A Service Manual Volume I  
02618-90002 2618A Service Manual Volume II  
Refer to 30051A for interface manuals

30300B (BCS)/30301B (RTE) Programmable Controller Subsystem  
\*30300-90002 Programmable Controller Reference Manual  
\*30301-90002 Programmable Controller Reference Manual  
\*Subsystem installation instructions contained in  
Appendix B.  
12925-90001 2748B Paper Tape Reader Subsystem  
02000-90088 System Support Log  
02100-90157 Diagnostic Configurator  
5951-1369 Introduction (Operating Procedures)  
5951-1371 Front Panel Procedures

5951-1374	SIO System Configuration
5951-1376	BBL/BBDL/BBMDL
02100-90160	2100S Reference Manual
02100-90162	2100S Installation Manual
02100-90200	24353A Loader Manual
02100-90215	Floating Point Instruction Diagnostic
02100-90217	DMA Diagnostic
12539-90008	12539C TBG Operating and Service Manual
12539-90011	12539B/C TBG Diagnostic
12895-90001	12895A DMA Installation
12901-90001	12901A Floating Point Installation
24390-90001	I-III Long Diagnostic (CPU and Memory)
02748-90032	2748B Tape Reader Operating and Service Manual
12554-90026	General Purpose Register Test Diagnostic
12597-90002	8-Bit Duplex Register IF Operating and Service Manual
12597-90022	12597A-002 Tape Reader IF Kit Manual
12597-90031	12597 Tape Reader Punch Diagnostic
12930-90001	12930A Universal IF Kit Manual
12930-90004	12930A Universal IF Test
30050-90012	30050A/51A Universal IF Diagnostic
30051-90001	30051A Universal IF (Diff.) Maintenance Manual
12531-90033	12531C TTY IF Kit Operating and Service Manual