

# Distributed Systems Network



HP 30018A/30019A  
Add-On ADCC  
installation manual



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# HP 30018A/30019A Add-On ADCC Installation Manual



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Fourth Edition . . . . . Feb 1982

# PRINTING HISTORY

New editions are complete revisions of the manual. Update packages, which are issued between editions, contain additional and replacement pages to be merged into the manual by the customer. The date on the title page and back cover of the manual changes only when a new edition is published. When an edition is reprinted, all the prior updates to the edition are incorporated. No information is incorporated into a reprinting unless it appears as a prior update. The edition does not change.

The software product part number printed alongside the date indicates the version and update level of the software product at the time the manual edition or update was issued. Many product updates and fixes do not require manual changes, and conversely, manual corrections may be done without accompanying product changes. Therefore, do not expect a one to one correspondence between product updates and manual updates.

First Edition . . . . .	Dec 1978
Second Edition . . . . .	Feb 1980
Third Edition . . . . .	Mar 1981
Update No. 1 . . . . .	Jun 1981
Fourth Edition . . . . .	Feb 1982

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# INTRODUCTION

Upon receiving this document, contact your local Hewlett-Packard field service office to arrange for the installation of this product. Directly prior to this installation, the system operator should backup the system as described in the HP 3000 Computer Systems Console Operator's Guide (32002-90004).

This manual describes the installation activities for an HP 30018A Asynchronous Data Communications Controller (ADCC MAIN) or an HP 30019A Asynchronous Data Communications Controller (ADCC EXTEND) which is to be added to an installed and functional HP 3000/30, HP 3000/33, HP 3000/40, or HP 3000/44 computer system. The installation description is intended for use by Hewlett-Packard Customer Engineers trained for HP 3000/30, HP 3000/33, HP 3000/40, or HP 3000/44 computer systems.

The following paragraphs and illustrations generally describe the installation of these products.



## 30018A PROCEDURE FOR SERIES 30/33

This product, which will add four RS-232 terminal ports to the system, consists of the following parts:

### For Series 30

31264-60001	ADCC MAIN PCA
30080-60027	Cable Assy.

### For Series 33

31264-60001	ADCC MAIN PCA
5061-2502	Cable Assy.

1. The system should be backed up by the system operator prior to beginning the installation.
2. Remove processor power by turning OFF the Processor Power Switch (see figure 1).
3. Install the PCA assembly into the next available card cage slot for the ADCC. See figure 2 (for Series 30) or figure 3 (for Series 33 computer systems).
4. For a Series 33, install the quad box end of the cable assembly into next available position on Terminal Panel. For Series 30, route the cable through the Cable Ground Clamp Bar and place the Quadbox in a convenient location behind the system. See figure 4 (for Series 30) or figure 6 (for Series 33). Route the other end of the cable to the ADCC PCA and connect it to the J2 edge connector. Use other ADCCs as a model for cable routing and connection.
5. Select the channel number according to the appropriate configuration matrix. See table 1 (for Series 30) or table 2 (for Series 33 computer systems).
6. Turn Processor Power Switch to ON and run I/O MAP and the ADCC diagnostic (refer to Diagnostic Manual Set, part number 30070-60068).
7. Cold Start the system from the backup media, using Cold Load Option and reconfigure for added terminals. Refer to the "Functions of the Console Operator" in the Console Operator's Guide (32002-90004) if required.
8. Log on to the system, using a terminal on the new channel if available, for installation verification.
9. Create new backup media to retain new configuration.

# 30018A PROCEDURE FOR SERIES 40

This product, which will add four RS-232 terminal ports to the system, consists of the following parts:

## For Series 40

31264-60001	ADCC MAIN PCA
30018-60001	ADCC Modem Cable
30170-60030	CMP/ADCC Cable

1. The system should be backed up by the system operator prior to beginning the installation.
2. Remove processor power by turning OFF the Processor Power Switch (see figure 1).
3. The first ADCC MAIN must be installed in slot 13 so that it can be reached by the CMP cable. Slot 14 must be reserved for an ADCC-Extender. Refer to figure 8 for recommended PCA slot location.
4. First ADCC-Main uses the CMP/ADCC cable (30170-60030) while the rest requires the ADCC Modem Cable. Refer to figure 5 for I/O cable routing information.
5. Select the channel number according to the appropriate configuration matrix. See table 3.
6. Turn Processor Power Switch to ON and run I/O MAP and the ADCC diagnostic (refer to Diagnostic Manual Set, part number 30070-60068).
7. Cold Start the system from the backup media, using Cold Load Option and reconfigure for added terminals. Refer to the "Functions of the Console Operator" in the Console Operator's Guide (32002-90004) if required.
8. Log on to the system, using a terminal on the new channel if available, for installation verification.
9. Create a new backup media to retain the new configuration.

# 30018A PROCEDURE FOR SERIES 44

This product (Option 44), which will add four RS-232 terminal ports to the system, consists of the following parts:

## For Series 44

31264-60001	ADCC MAIN PCA
30021-60001	Cable Assy.

1. The system should be backed up by the system operator prior to beginning the installation.
2. Remove processor power by turning OFF the Processor Power Switch (see figure 1).
3. Install the first ADCC Main PCA assembly in slot 14 of card cage 1, so that it can be reached by the CMP cable. Figure 7 shows the relative location of card cage 1 in a dual card cage configuration. Figure 9 and 10 illustrate the slot locations in single and dual card cage configurations, respectively.
4. Install the quad box end of the cable assembly into the next available position on the rear junction panel, routing the cable from the card cage through the access opening into the power/control area behind the rear junction panel. (Refer to figure 7, 11, and 12.) Route the other end of the cable to the ADCC PCA and connect it to the J2 edge connector. When available, use other ADCCs as a model for cable routing and connection.
5. Select the channel number according to the configuration matrix. (See table 4.)
6. Additional terminal ports can be added by installing more ADCCs. An HP 30019A ADCC Extender installed in slot 15 will add four more ports. (See "30019A Procedure for Series 44".) For further expansion, install additional ADCCs in slot locations as shown in figures 9 and 10.
7. Install the quad box end of the cable assembly for the additional ADCCs (step 6) in the side junction panel. Route the cable along the lower edge of the card cage(s) to the side junction panel, securing the cable with the plastic loops provided. (Refer to figures 7, 11, and 13.)
8. Select the channel number(s) for the additional ADCCs according to the configuration matrix. (See table 4.)

9. In 60-terminal systems install the fifteenth ADCC cable in one of the INP positions. (See figures 12 and 13.) There will be no conflict in this condition, since 60-terminal systems are slot-limited to only four INPs.
10. Turn Processor Power Switch to ON and run I/O MAP and the ADCC diagnostic (refer to Diagnostic Manual Set, part number 30070-60068).
11. Cold Start the system from the backup media, using Cold Load Option and reconfigure for added terminals. Refer to the "Functions of the Console Operator" in the Console Operator's Guide (32002-90004) if required.
12. Log on to the system, using a terminal on the new channel if available, for installation verification.
13. Create new backup media to retain new configuration.

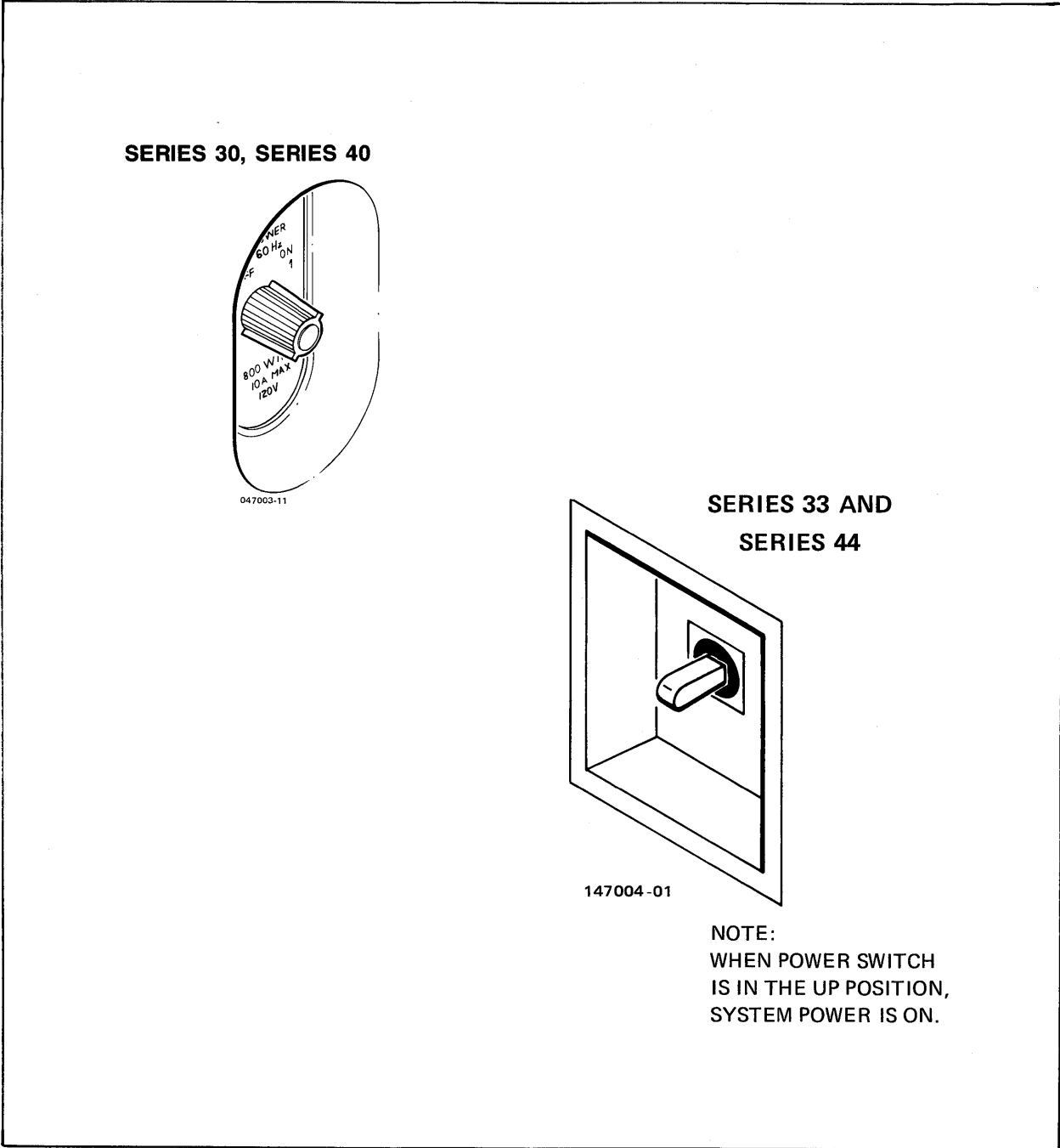
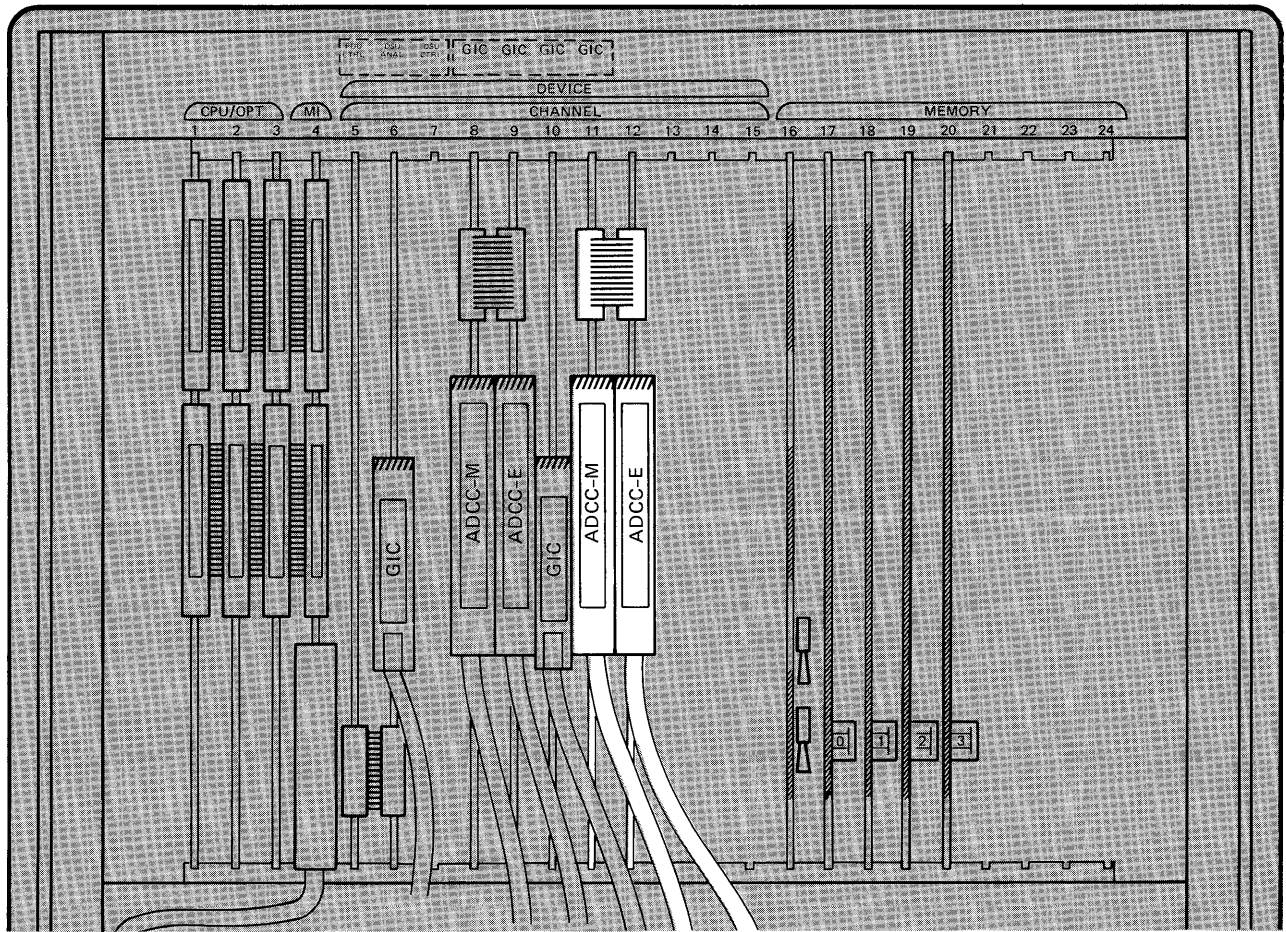
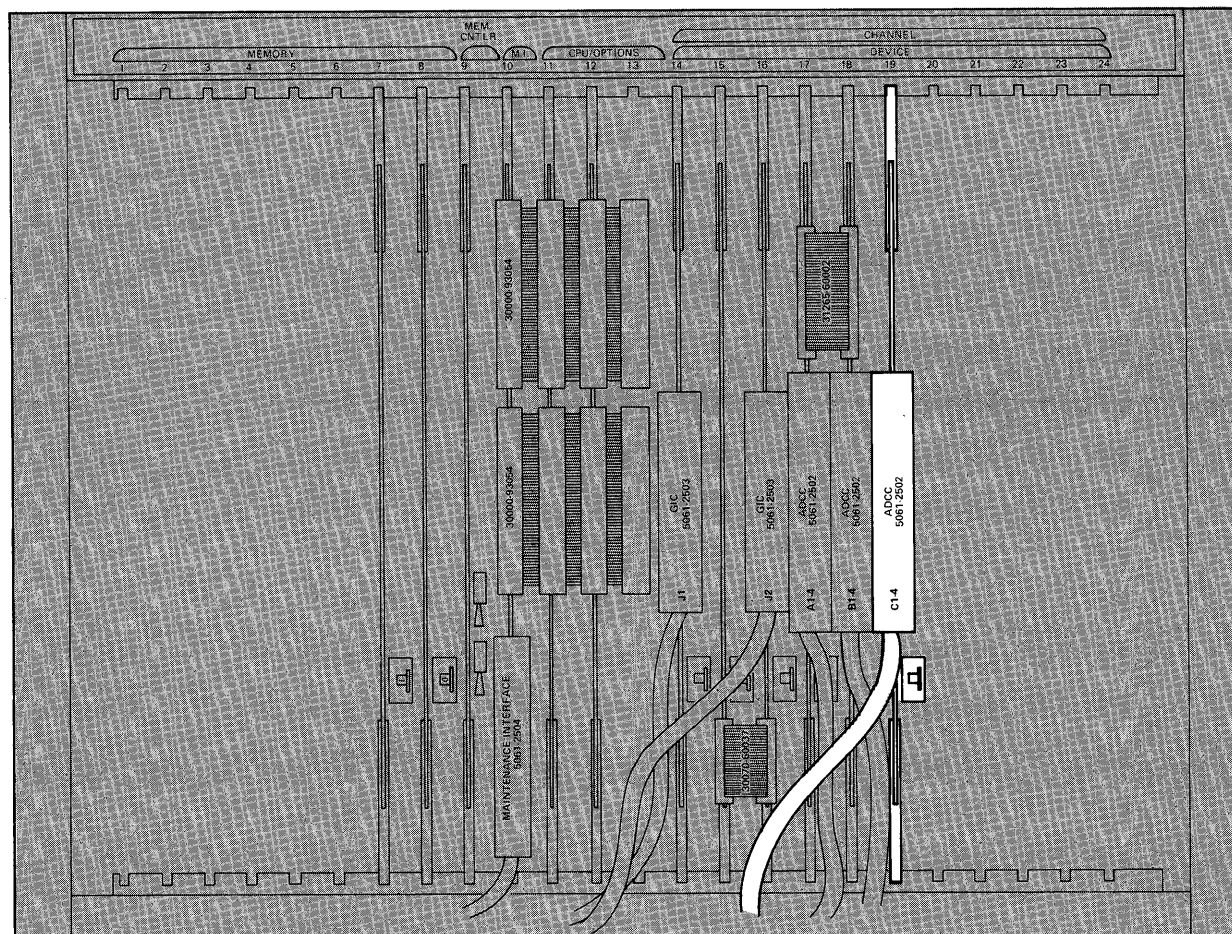


Figure 1. Processor Power Switch



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Figure 2. Series 30 Card Cage Assignments

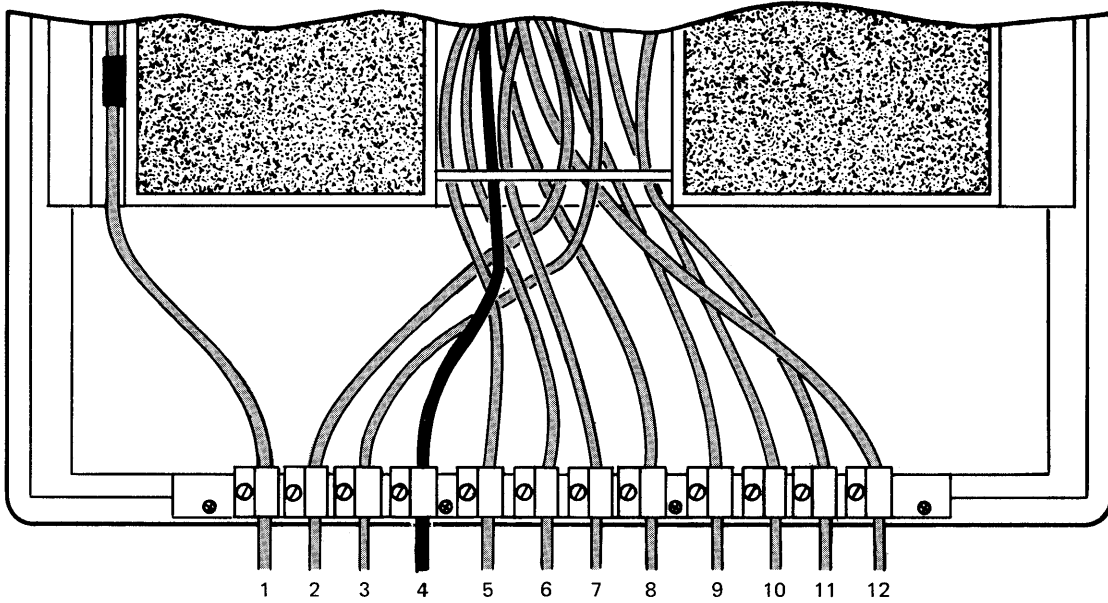


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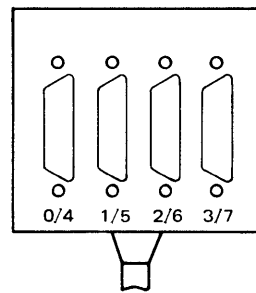
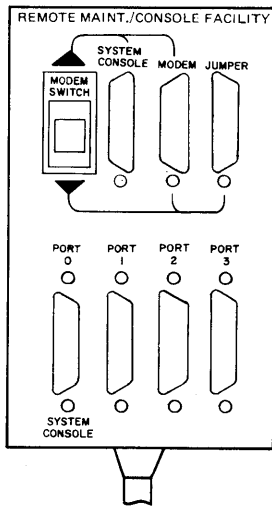
NOTE

Ensure that each ADCC Cable Hood is labeled to correspond to the particular physical cable port location on the Terminal Panel. Use the supplied self-adhesive label strips.

Figure 3. Series 33 Card Cage Assignments



ITEM	FROM	TO
1	MI	System Console Async D.C.
2	ADCC	Switch Box (see below)
3	ADCC	Terminal Quad Box (see below)
4	GIC	System Disc and Line Printers
5	GIC	Magnetic Tape
6	Power Cord	Power Receptacle
7-12	ADCC or other I/O	Additional Terminal Quad Boxes or other specified I/O (INP)



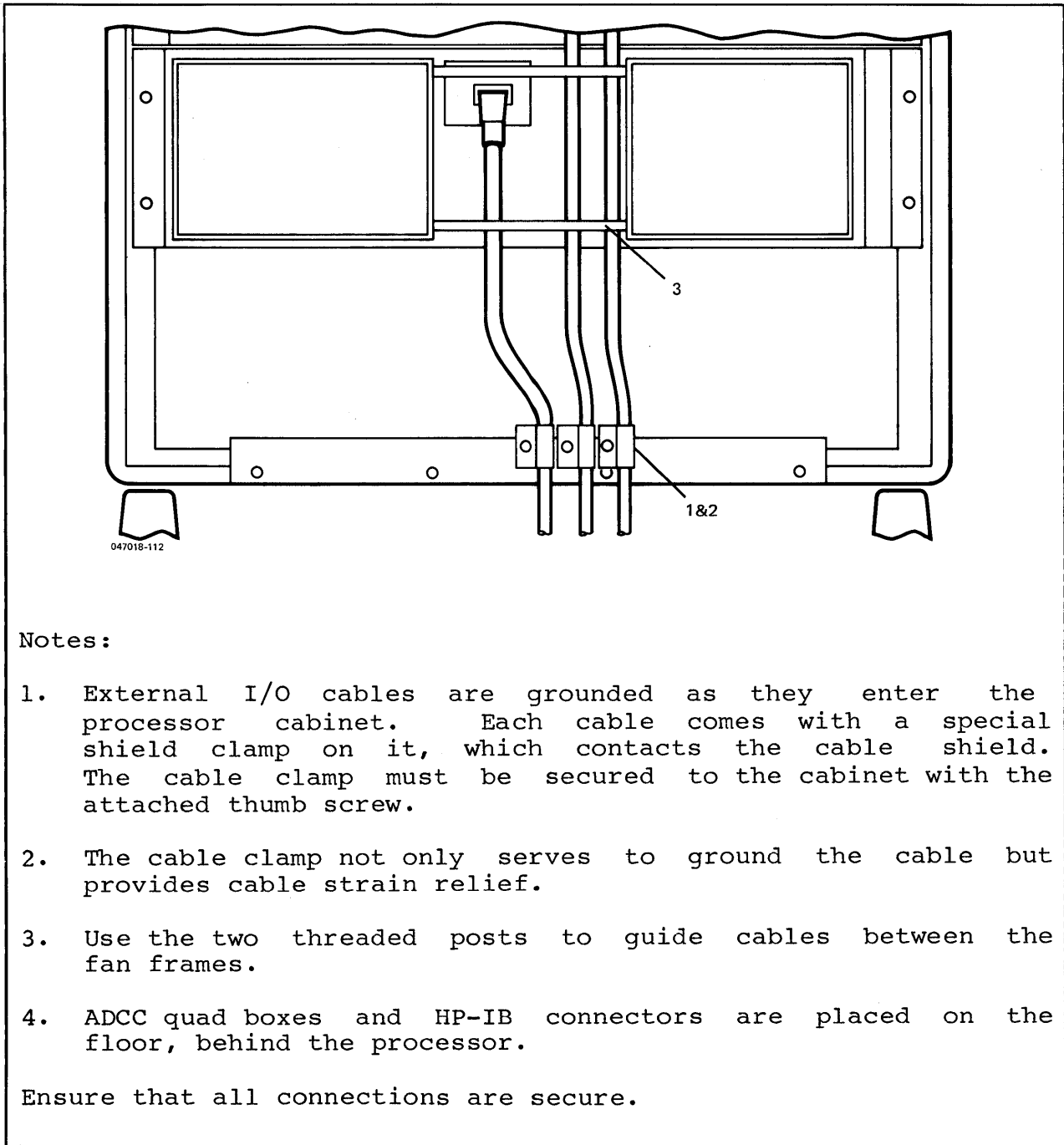
SWITCHBOX

QUAD BOX

147003-01

Figure 4. Series 30 Cable Routing Area





Notes:

1. External I/O cables are grounded as they enter the processor cabinet. Each cable comes with a special shield clamp on it, which contacts the cable shield. The cable clamp must be secured to the cabinet with the attached thumb screw.
2. The cable clamp not only serves to ground the cable but provides cable strain relief.
3. Use the two threaded posts to guide cables between the fan frames.
4. ADCC quad boxes and HP-IB connectors are placed on the floor, behind the processor.

Ensure that all connections are secure.

Figure 5. Series 40 Cable Routing Diagram

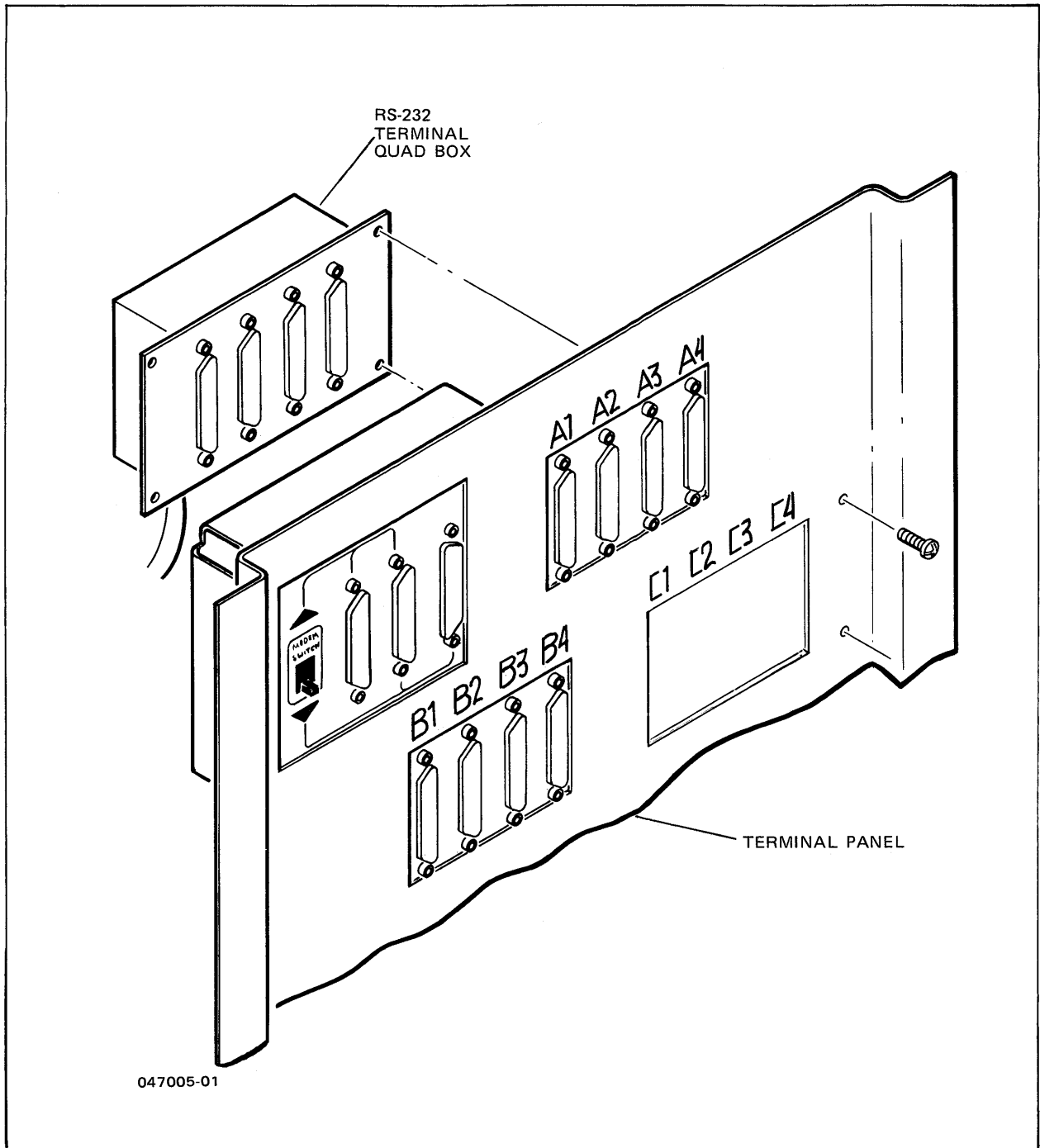


Figure 6. Series 33 Terminal Panel

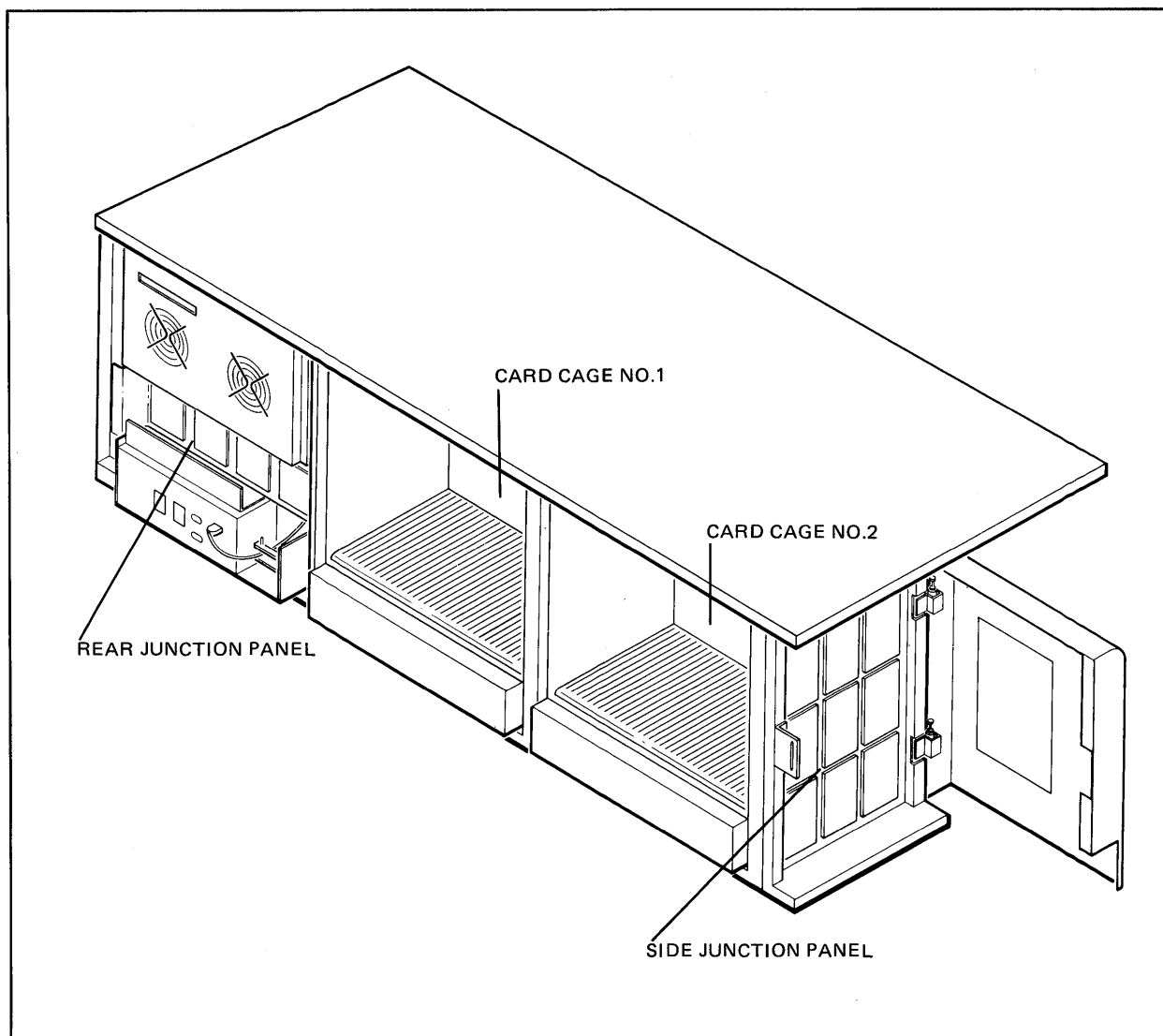


Figure 7. Series 44 Mainframe (Rear View)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
MEM ARRAY 0-256	MEM ARRAY 256-512	MEM ARRAY 512-768	MEM ARRAY 768-1024	MEMORY CONTROLLER	CMP	PCS		ALU		CTL		ADCC(M) CHAN 13	ADCC(E) CHAN 13	GIC CHAN 11	GIC CHAN 9	ALL INP'S GIC CHAN 12 OR 13 PRINTER TRANSLATORS ADCC(M) AND ADCC(E)							

NOTES:

1. GIC's must be installed in the following channel number order: 11, 9, 13, 12.
2. INP's and printer translator PCA's must be installed in slots adjacent to their controlling GIC.
3. GIC channel 9 must move to the left to make room for any new GIC's that are added.

Figure 8. Series 40 Slot Locations

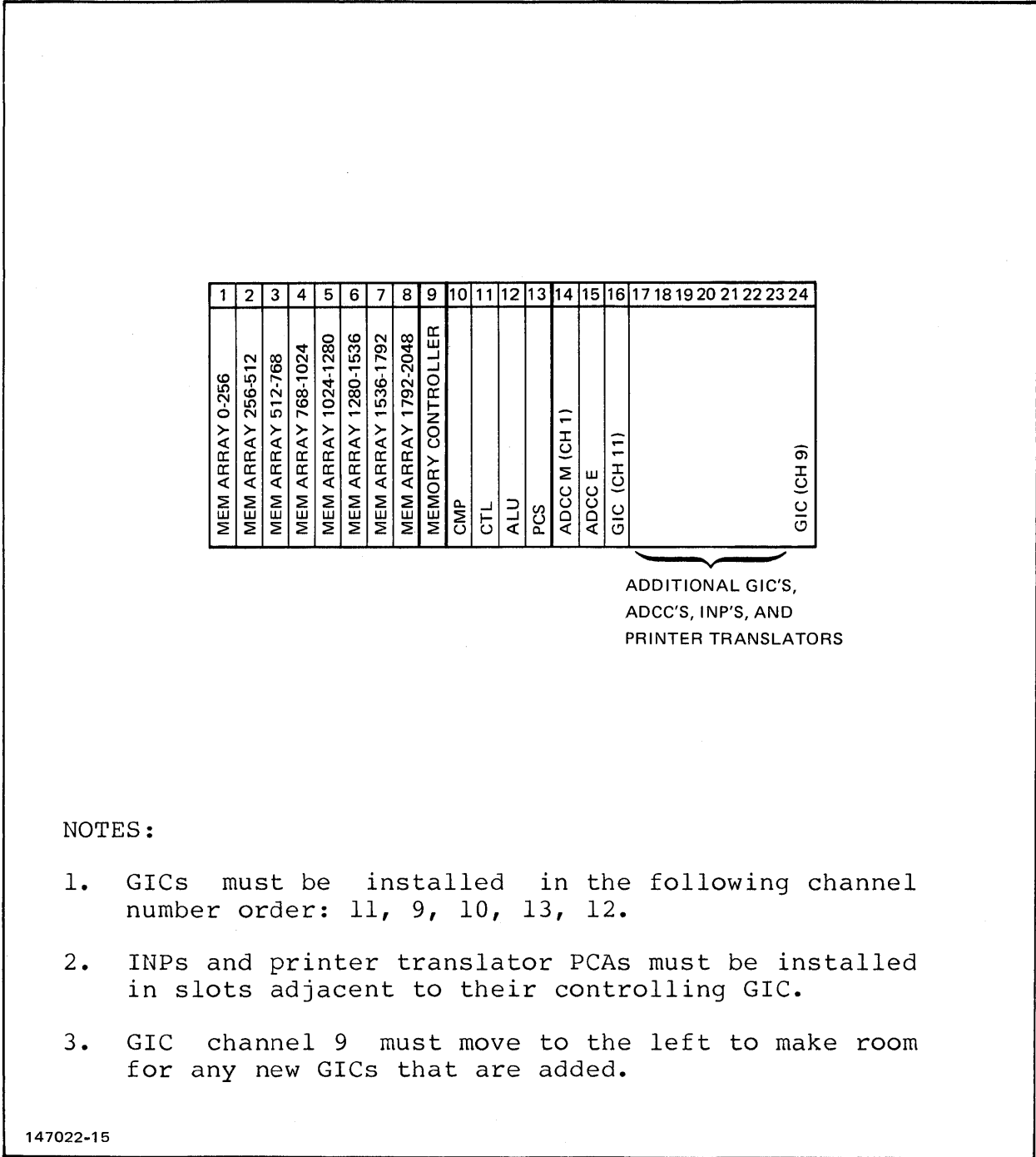


Figure 9. Series 44 Slot Locations (Single Card Cage Configuration)

**CARD CAGE 1**

SLOT NO.	
1	MEMORY ARRAY (0-256 KB)
2	MEMORY ARRAY 256-512 KB)
3	MEMORY ARRAY (512-768 KB)
4	MEMORY ARRAY (768-1024 KB)
5	MEMORY ARRAY (1024-1280 KB)
6	MEMORY ARRAY (1280-1536 KB)
7	MEMORY ARRAY (1536-1792 KB)
8	MEMORY ARRAY (1792-2048 KB)
9	MEMORY CONTROL & LOGGING
10	CMP
11	CTL
12	ALU
13	PCS
14	ADCC (M) (CH 1)
15	ADCC (E) (CH 11, DEV 5)
16	GIC (CH 11)
17	ADCC (M) / INP
18	ADCC (E) / INP
19	ADCC (M) / INP
20	ADCC (E)
21	ADCC (M)
22	ADCC (E) / GIC (CH 9)
23	ADCC (M) / GIC (CH 10)
24	GIC (CH 13)

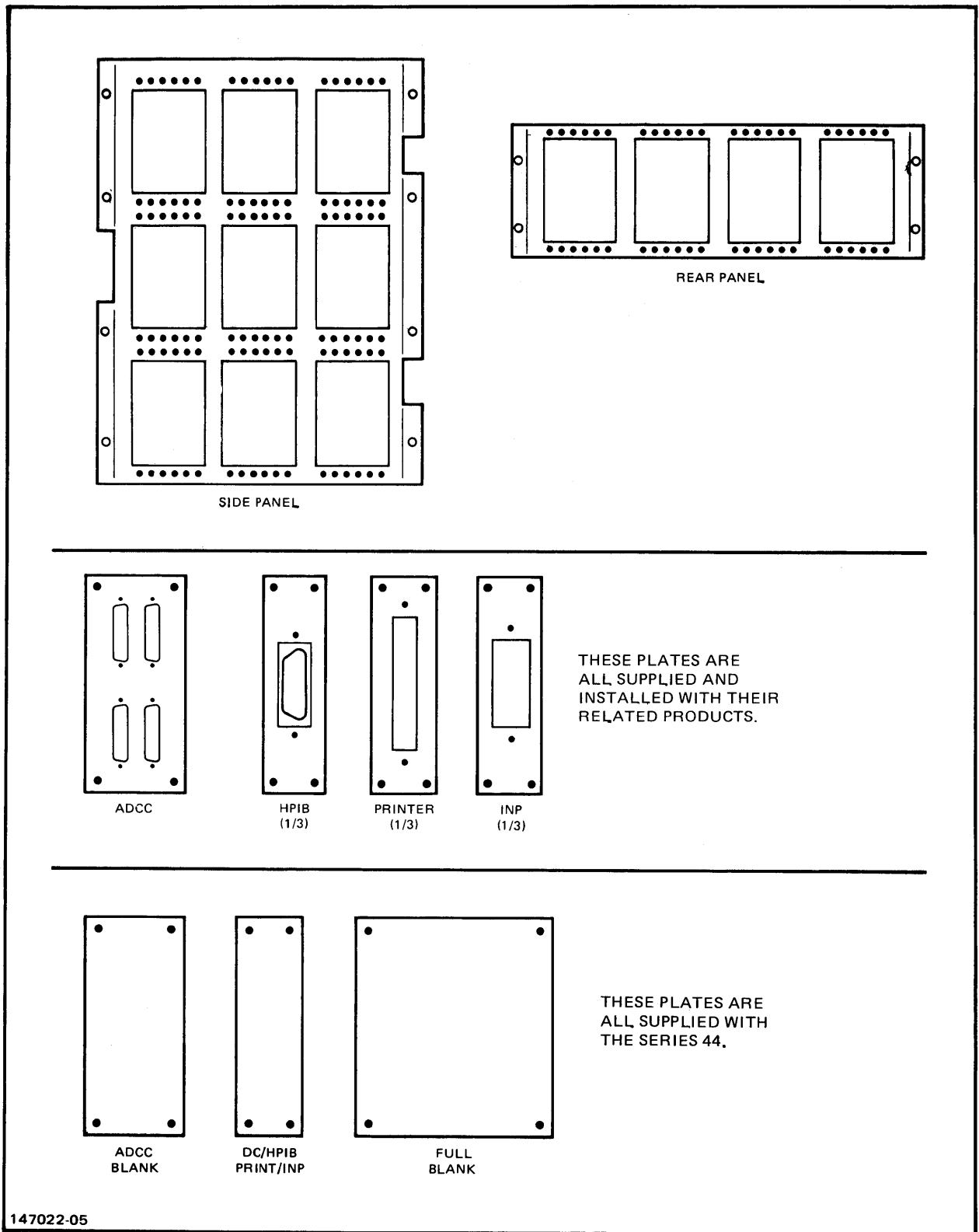
**CARD CAGE 2**

SLOT NO.	
1	ADCC (M) (CH2)
2	ADCC (E)
3	ADCC (M) (CH3)
4	ADCC (E)
5	ADCC (M) (CH4)
6	ADCC (E)
7	ADCC (M) / GIC (CH 12)
8	MEMORY CONTROL & LOGGING
9	MEMORY ARRAY (3840-4096 KB)
10	MEMORY ARRAY (3584-3840 KB)
11	MEMORY ARRAY (3328-3584 KB)
12	MEMORY ARRAY (3072-3328 KB)
13	MEMORY ARRAY (2816-3072 KB)
14	MEMORY ARRAY (2560-2816 KB)
15	MEMORY ARRAY (2304-2560 KB)
16	MEMORY ARRAY (2048-2304 KB)
17	INP (CH 12, DEV 4)
18	INP (CH 12, DEV 5)
19	INP (CH 12, DEV 6)
20	INP (CH 12, DEV 7)
21	PTR (CH 12, DEV 3)
22	PTR (CH 12, DEV 2)
23	PTR (CH 12, DEV 1)
24	PTR (CH 12, DEV 0)

**NOTES:**

1. After slots 14 and 15 in card cage 1 are filled, any additional ADCCs should then be installed in card cage 2 before filling the remaining slots in card cage 1.
2. Slots in card cage 2 are designated E1, E2, etc., to correspond with associated cable designations.

Figure 10. Series 44 Slot Locations (Dual Card Cage Configuration)



147022-05

Figure 11. Series 44 Side and Rear Junction Panels

TYPE CMP/ ADCC	TYPE —	TYPE ADCC (EXT)	TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)	TYPE INP	TYPE INP	TYPE INP	TYPE GIC	TYPE GIC	TYPE GIC
SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT
14	—	15	—	—	—	—	—	—	—	—	16
CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL
1	—	1	7	—	7	11/12	11/12	11/12	9	10	11
DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE
0	—	4	0	—	4	—	—	—	0	0	0
3	—	7	3	—	7				7	7	7

047022-07

Figure 12. Series 44 Rear Junction Panel Identification Chart

TYPE PTR	TYPE PTR	TYPE PTR	TYPE PTR	TYPE GIC	TYPE INP/GIC	TYPE INP	TYPE INP	TYPE INP	TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)	TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)	TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)
SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT
CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL
11/12	11/12	11/12	11/12	11/12	12/13	11/12	12	12	12	12	12	4	—	4	6	—	6
DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE
				0					0	—	4	0	—	4	—	—	4
				7					3	—	7	3	—	7	3	—	7

TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)	TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)	TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)
SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT
CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL	CHNL
2	—	2	3	—	3	5	—	5
DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE
0	—	4	0	—	4	0	—	4
3	—	7	3	—	7	3	—	7

TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)	TYPE ADCC (MAIN)	TYPE —	TYPE ADCC (EXT)
SLOT	SLOT	SLOT	SLOT	SLOT	SLOT
CHNL	CHNL	CHNL	CHNL	CHNL	CHNL
5	—	5	6	—	6
DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE	DEV RANGE
0	—	4	—	—	4
3	—	7	3	—	7

147022-06

Figure 13. Series 44 Side Junction Panel Identification Chart



## 30019A PROCEDURE FOR SERIES 30/33

This product will add 4 terminal connectors to the HP 30018A add-on ADCC and consists of the following additional parts:

### For Series 30

31265-60001	ADCC EXTEND PCA
30080-60027	RS-232 Cable Assembly
31265-60002	ADCC-M/ADCC-E Interconnect Cable

### For Series 33

31265-60001	ADCC EXTEND PCA
5061-2502	RS-232 Cable Assembly
31265-60002	ADCC-M/ADCC-E Interconnect Cable

Follow the ADCC-M (30018A) installation procedure for Series 30/33 as previously described, except interconnect the J1 front edge connectors of the ADCC-M and ADCC-E PCAs via the 31265-60002 flat cable. See figure 14 (for Series 30) or figure 15 (for Series 33), and use previously installed ADCCs as a model.

### NOTE

Install the ADCC MAIN and ADCC EXTEND PCAs in pairs of adjacent slots to facilitate interconnection.

## 30019A PROCEDURE FOR SERIES 40

This product will add 4 terminal connectors to the HP 30018A add-on ADCC and consists of the following additional parts:

### For Series 40

31265-60001	ADCC EXTEND PCA
30018-60001	RS-232 Cable Assembly
31265-60002	ADCC-M/ADCC-E Interconnect Cable

Follow the ADCC-M (30018A) installation procedure for Series 40 as previously described, except interconnect the J1 front edge connectors of the ADCC-M and ADCC-E PCAs via the 31265-60002 flat cable.

### NOTE

Install the ADCC MAIN and ADCC EXTEND PCAs in pairs of adjacent slots to facilitate interconnection.

## 30019A PROCEDURE FOR SERIES 44

This product (Option 44) will add 4 terminal connectors to the HP 30018A add-on ADCC and consists of the following additional parts:

### For Series 44

31265-60001	ADCC EXTEND PCA
30021-60001	RS-232 Cable Assembly
31265-60002	ADCC-M/ADCC-E Interconnect Cable

Follow the ADCC-M (30018A) installation procedure for Series 44 as previously described, except interconnect the J1 front edge connectors of the ADCC-M and ADCC-E PCAs via the 31265-60002 flat cable. (The interconnection of the two PCA boards with the 31265-60002 flat cable for the Series 44 is the same as that part of the illustration in figure 15 for the Series 33.)

### NOTE

Install the ADCC MAIN and ADCC EXTEND PCAs in pairs of adjacent slots to facilitate interconnection.

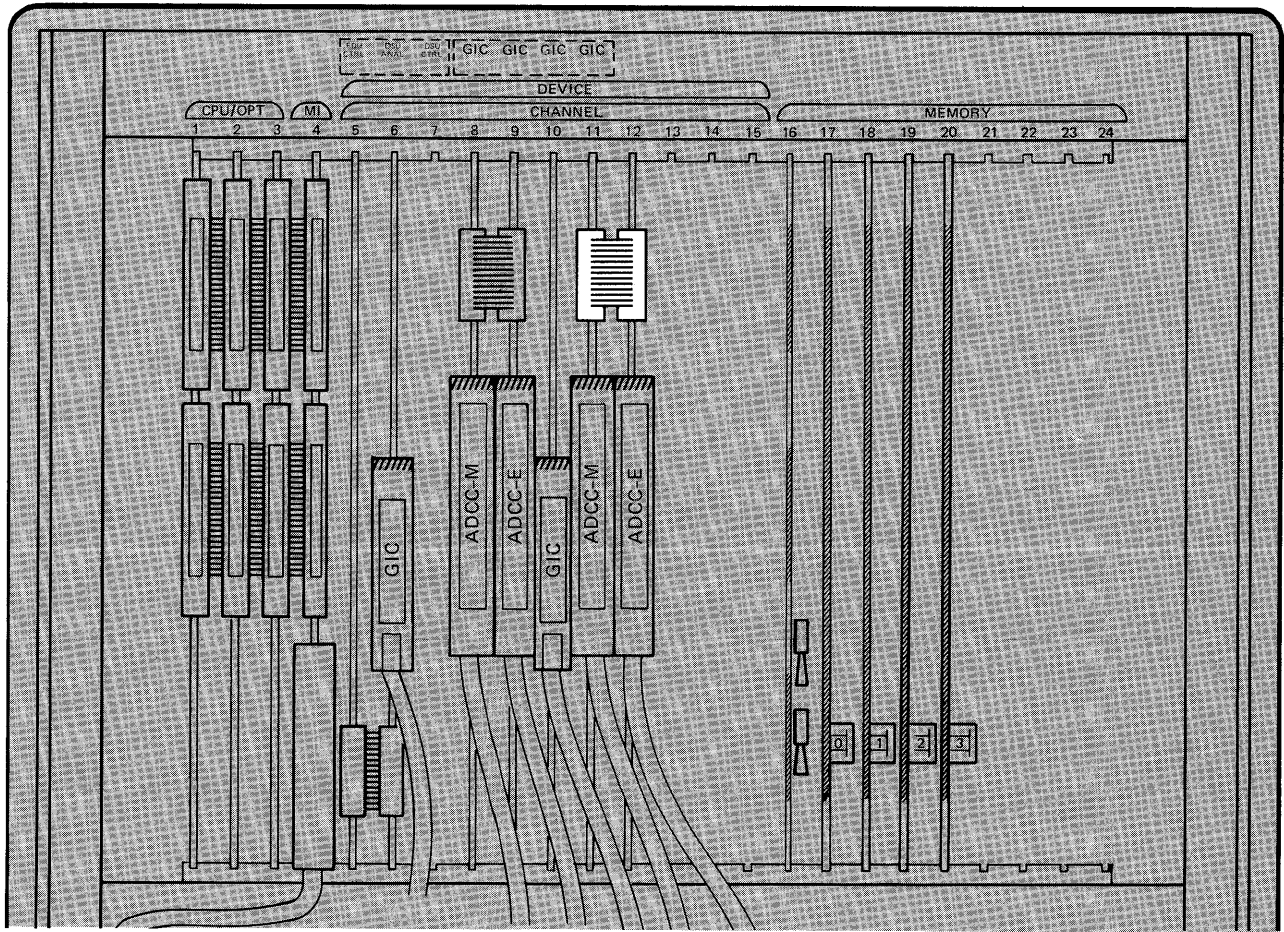
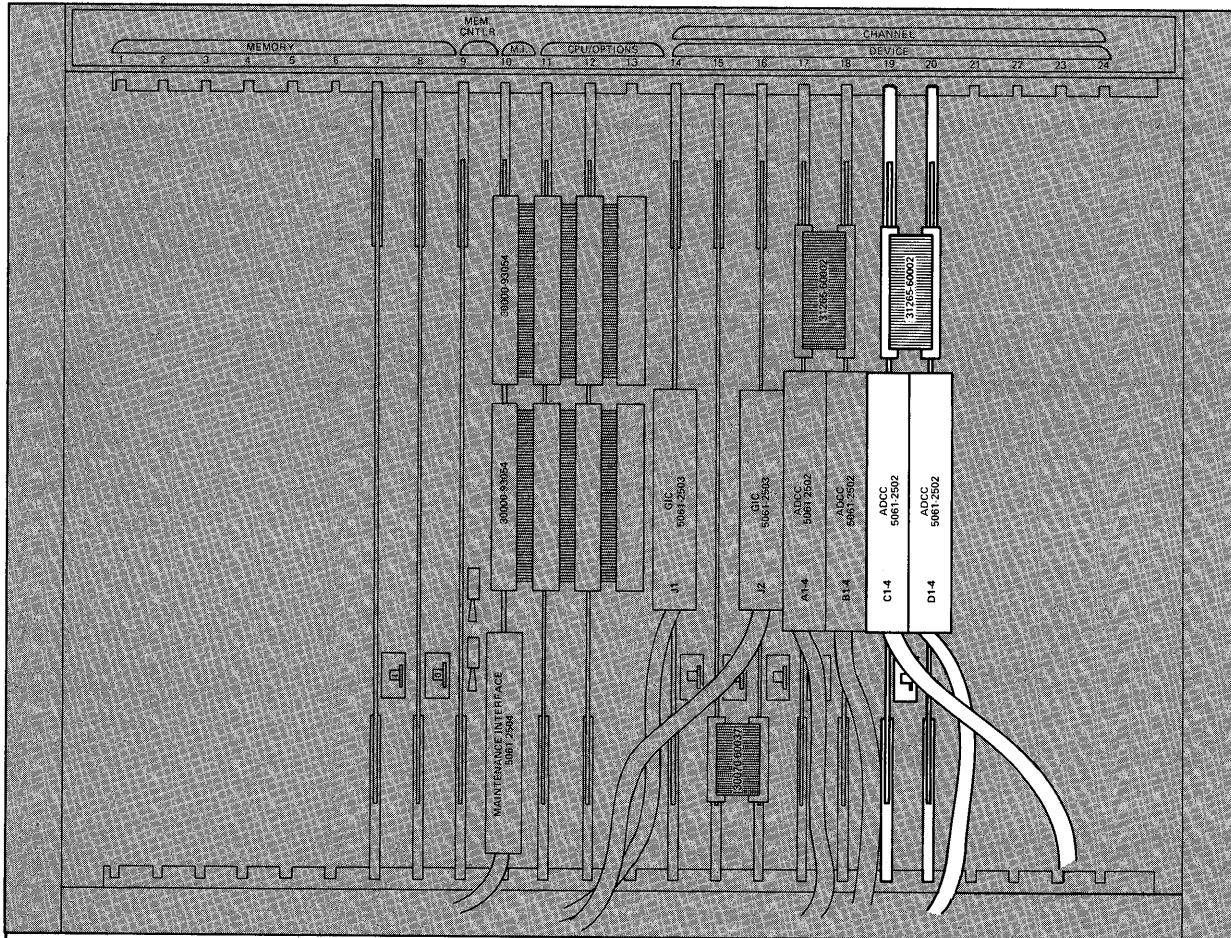


Figure 14. Series 30 ADCC-M to ADCC-E Interconnect



D47002-02

NOTE

Ensure that each ADCC Cable Hood is labeled to correspond to the particular physical cable port location on the Terminal Panel. Use the supplied self-adhesive label strips.

Figure 15. Series 33 ADCC-M to ADCC-E Interconnect

Table 1. Series 30 ADCC Configuration Matrix

## Terminal Configuration

Baud: 2400 or below		
System Capacity: 32 Terminals (16 allowed using Block Mode)		
Hardware Cable Length: 50 ft.		
ADCC Channel Numbers:	Terminal Numbers	Channel Number
	1 thru 8	1
	9 thru 16	2
	17 thru 24	3
	25 thru 32	4

Table 2. Series 33 ADCC Configuration Matrix

Terminal Configuration

Baud: 2400 or below		
System Capacity: 32 Terminals (16 allowed using Block Mode)		
Hardware Cable Length: 50 ft.		
ADCC Channel Numbers:	Terminal Numbers	Channel Number
	1 thru 8	1
	9 thru 16	2
	17 thru 24	3
	25 thru 32	4

Table 3. Series 40 ADCC Configuration Matrix

## Terminal Configuration

Baud: 2400 or below		
System Capacity: 32 Terminals (16 allowed using Block Mode)		
Hardware Cable Length: 50 ft.		
ADCC Channel Numbers:	Terminal Numbers	Channel Number
	1 thru 8	1
	9 thru 16	2
	17 thru 24	3
	25 thru 32	4



Table 4. Series 44 ADCC Configuration Matrix

Terminal Configuration

Baud: 2400 or below		
System Capacity: 32 Terminals (16 allowed using Block Mode)		
Hardware Cable Length: 50 ft.		
ADCC Channel Numbers:	Terminal Numbers	Channel Number
	1 thru 8	1
	9 thru 16	2
	17 thru 24	3
	25 thru 32	4
	33 thru 40	5
	41 thru 48	6
	49 thru 56	7
	57 thru 60	8

**READER COMMENT SHEET**

**HP 30018A/30019A  
Add-On ADCC  
Installation Manual  
30070-90023 Feb 1982**

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- Is this manual technically accurate?      Yes  No  (If no, explain under Comments, below.)
- Are the concepts and wording easy to understand?      Yes  No  (If no, explain under Comments, below.)
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### HONG KONG

Tel: 5-832 3211  
*After Jan. 1, 1984*  
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### HONG KONG

Telex: 66678 HEWPA HX  
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### CANADA

Hewlett-Packard (Canada) Ltd.  
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### EASTERN EUROPE

Hewlett-Packard Ges.m.b.h.  
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Hewlett-Packard S.A.  
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Hewlett-Packard S.A.  
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Hewlett-Packard Co.  
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5201 Tollview Drive  
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### SOUTHERN USA

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2000 South Park Place  
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### WESTERN USA

Hewlett-Packard Co.  
3939 Lankershim Blvd.  
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### OTHER INTERNATIONAL AREAS

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3495 Deer Creek Road  
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### ANGOLA

*Telectra*  
Empresa Técnica de Equipamentos  
R. Barbosa Rodrigues, 41-I DT.  
Caixa Postal 6487  
LUANDA  
Tel: 35515,35516  
E,P

### ARGENTINA

Hewlett-Packard Argentina S.A.  
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Martinez 1640 BUENOS AIRES  
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Telex: 17595 BIONAR  
Cable: HEWPACKARG  
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*Biotron S.A.C.I.M. e I.*  
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1399 BUENOS AIRES  
Tel: 30-4846, 30-1851  
Telex: 17595 BIONAR  
M

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#### Adelaide, South Australia Office

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A\*,CH,CM,,E,MS,P

#### Brisbane, Queensland Office

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THE GAP, Queensland 4061  
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A,CH,CM,E,M,P

#### Canberra, Australia Capital Territory Office

Hewlett-Packard Australia Ltd.  
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FYSHWICK, A.C.T. 2609  
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CH,CM,E,P

#### Melbourne, Victoria Office

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BLACKBURN, Victoria 3130  
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Telex: 31-024  
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#### Perth, Western Australia Office

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CLAREMONT, W.A. 6010  
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NORTH RYDE, N.S.W. 2113  
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Telex: 21561  
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Hewlett-Packard Ges.m.b.h.  
Lieblgasse 1  
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A-1222 VIENNA  
Tel: (0222) 23 65 11-0  
Telex: 134425 HEPA A  
A,CH,CM,CS,E,MS,P

### BAHRAIN

Green Salon  
P.O. Box 557  
Manama  
BAHRAIN  
Tel: 255503-255950  
Telex: 84419  
P

Wael Pharmacy  
P.O. Box 648

### BAHRAIN

Tel: 256123  
Telex: 8550 WAEI BN  
E,C,M

### BELGIUM

Hewlett-Packard Belgium S.A./N.V.  
Blvd de la Woluwe, 100  
Woluwedal  
B-1200 BRUSSELS  
Tel: (02) 762-32-00  
Telex: 23-494 paloben bru  
A,CH,CM,CS,E,MP,P

### BRAZIL

Hewlett-Packard do Brasil I.e.C. Ltda.  
Alameda Rio Negro, 750  
Alphaville  
06400 BARUERI SP  
Tel: (011) 421.1311  
Telex: (011) 33872 HPBR-BR  
Cable: HEWPACK Sao Paulo  
A,CH,CM,CS,E,M,P  
Hewlett-Packard do Brasil I.e.C. Ltda.  
Avenida Epitacio Pessoa, 4664  
22471 RIO DE JANEIRO-RJ  
Tel: (021) 286.0237  
Telex: 021-21905 HPBR-BR  
Cable: HEWPACK Rio de Janeiro  
A,CH,CM,E,MS,P\*  
ANAMED I.C.E.I. Ltda.  
Rua Bage, 103  
04012 SAO PAULO  
Tel: (011) 570-5726  
Telex: 021-21905 HPBR-BR  
M



# SALES & SUPPORT OFFICES

Arranged alphabetically by country

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Hewlett-Packard (Canada) Ltd.  
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**CALGARY**, Alberta T2A 6T7  
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A,CH,CM,E\*,MS,P\*

Hewlett-Packard (Canada) Ltd.  
11120A-178th Street  
**EDMONTON**, Alberta T5S 1P2  
Tel: (403) 486-6666  
A,CH,CM,CS,E,MS,P

### British Columbia

Hewlett-Packard (Canada) Ltd.  
10691 Shellbridge Way  
**RICHMOND**,

British Columbia V6X 2W7  
Tel: (604) 270-2277  
Telex: 6 10-922-5059  
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### Manitoba

Hewlett-Packard (Canada) Ltd.  
380-550 Century Street  
**WINNIPEG**, Manitoba R3H 0Y1  
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### Nova Scotia

Hewlett-Packard (Canada) Ltd.  
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900 Windmill Road  
**DARTMOUTH**, Nova Scotia B2Y 3Z6  
Tel: (902) 469-7820  
CH,CM,CS,E\*,MS,P\*

### Ontario

Hewlett-Packard (Canada) Ltd.  
3325 N. Service Rd., Unit 6  
**BURLINGTON**, Ontario P3A 2A3  
Tel: (416) 335-8644  
CS,M\*

Hewlett-Packard (Canada) Ltd.  
552 Newbold Street  
**LONDON**, Ontario N6E 2S5  
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A,CH,CM,E\*,MS,P\*

Hewlett-Packard (Canada) Ltd.  
6877 Goreway Drive  
**MISSISSAUGA**, Ontario L4V 1M8  
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Hewlett-Packard (Canada) Ltd.  
2670 Queensview Dr.  
**OTTAWA**, Ontario K2B 8K1  
Tel: (613) 820-6483  
A,CH,CM,CS,E\*,MS,P\*

Hewlett-Packard (Canada) Ltd.  
220 Yorkland Blvd., Unit #11  
**WILLOWDALE**, Ontario M2J 1R5  
Tel: (416) 499-9333  
CH

### Quebec

Hewlett-Packard (Canada) Ltd.  
17500 South Service Road  
Trans-Canada Highway  
**KIRKLAND**, Quebec H9J 2M5  
Tel: (514) 697-4232  
A,CH,CM,CS,E,MP,P\*

Hewlett-Packard (Canada) Ltd.  
Les Galeries du Vallon  
2323 Du Versant Nord  
**STE. FOY**, Quebec G1N 4C2  
Tel: (418) 687-4570  
CH

## CHILE

Jorge Calcagni y Cia. Ltda.  
Av. Italia 634 Santiago  
Casilla 16475  
**SANTIAGO 9**  
Tel: 222-0222  
Telex: Public Booth 440001  
A,CM,E,M

Olympia (Chile) Ltda.  
Av. Rodrigo de Araya 1045  
Casilla 256-V  
**SANTIAGO 21**  
Tel: (02) 22 55 044  
Telex: 240-565 OLYMP CL  
Cable: Olympiachile Santiagochile  
CH,CS,P

## CHINA, People's Republic of

China Hewlett-Packard Rep. Office  
P.O. Box 418  
1A Lane 2, Luchang St.  
Beiwei Rd., Xuanwu District  
**BEIJING**

Tel: 33-1947, 33-7426  
Telex: 22601 CTSHP CN.  
Cable: 1920  
A,CH,CM,CS,E,P

## COLOMBIA

Instrumentación  
H. A. Langebaek & Kier S.A.  
Carrera 4A No. 52A-26  
Apartado Aereo 6287  
**BOGOTA 1, D.E.**  
Tel: 212-1466  
Telex: 44400 INST CO  
Cable: AARIS Bogota  
CM,E,M

Casa Humboldt Ltda.  
Carrera 14, No. 98-60  
Apartado Aereo 51283  
**BOGOTA 1, D.E.**  
Tel: 256-1686  
Telex: 45403 CCAL CO.  
A

## COSTA RICA

Científica Costarricense S.A.  
Avenida 2, Calle 5  
San Pedro de Montes de Oca  
Apartado 10159  
**SAN JOSE**  
Tel: 24-38-20, 24-08-19  
Telex: 2367 GALGUR CR  
CM,E,M

## CYPRUS

Telerexa Ltd.  
P.O. Box 4809  
14C Stassinou Avenue  
**NICOSIA**  
Tel: 62698  
Telex: 2894 LEVIDO CY  
E,M,P

## DENMARK

Hewlett-Packard A/S  
Datavej 52  
DK-3460 **BIRKEROD**  
Tel: (02) 81-66-40  
Telex: 37409 hpas dk  
A,CH,CM,CS,E,MS,P  
Hewlett-Packard A/S  
Rølgighedsvej 32  
DK-8240 **RISSKOV**, Aarhus  
Tel: (06) 17-60-00  
Telex: 37409 hpas dk  
CH,E

## DOMINICAN REPUBLIC

Microprog S.A.  
Juan Tomás Mejía y Cotes No. 60  
Arroyo Hondo  
**SANTO DOMINGO**  
Tel: 565-6268  
Telex: 4510 ARENTA DR (RCA) P

## ECUADOR

CYEDE Cia. Ltda.  
Avenida Eloy Alfaro 1749  
Casilla 6423 CCI  
**QUITO**  
Tel: 450-975, 243-052  
Telex: 2548 CYEDE ED  
CM,E,P

### Hospitalar S.A.

Robles 625  
Casilla 3590  
**QUITO**  
Tel: 545-250, 545-122  
Telex: 2485 HOSPTL ED  
Cable: HOSPITALAR-Quito  
M

## EGYPT

International Engineering Associates  
24 Hussein Hegazi Street  
Kasr-el-Aini

### CAIRO

Tel: 23829, 21641  
Telex: IEA UN 93830  
CH,CS,E,M

### EGYPOR

P.O.Box 2558  
42 El Zahraa Street  
**CAIRO, Egypt**  
Tel: 65 00 21  
Telex: 93 337  
P

## EL SALVADOR

IPESA de El Salvador S.A.  
29 Avenida Norte 1216  
**SAN SALVADOR**  
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Telex: 20539 IPESASAL  
A,CH,CM,CS,E,P

## FINLAND

Hewlett-Packard Oy  
Revontulentie 7  
PL 24  
SF-02101 **ESPOO 10**  
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Telex: 121563 hewpa sf  
CH,CM,CS,P  
Hewlett-Packard Oy  
(Olarinluoma 7)  
PL 24  
02101 **ESPOO 10**  
Tel: (90) 4521022  
A,E,MS

Hewlett-Packard Oy  
Aatoksenkatu 10-C  
SF-40720-72 **JYVASKYLA**  
Tel: (941) 216318  
CH  
Hewlett-Packard Oy  
Kainuntie 1-C  
SF-90140-14 **OULU**  
Tel: (981) 338785  
CH

## FRANCE

Hewlett-Packard France  
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**AIX-EN-PROVENCE**  
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A,CH,E,MS,P\*

Hewlett-Packard France  
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F-61000 **ALENCON**  
Tel: 16 (33) 29 04 42

Hewlett-Packard France  
Boite Postale 503  
F-25026 **BESANCON**  
28 rue de la Republique  
F-25000 **BESANCON**  
Tel: 16 (81) 83-16-22  
CH,M

Hewlett-Packard France  
13, Place Napoleon III  
F-29000 **BREST**  
Tel: 16 (98) 03-38-35

Hewlett-Packard France  
Chemin des Mouilles  
Boite Postale 162  
F-69130 **ECULLY Cedex (Lyon)**  
Tel: 16 (78) 833-81-25  
Tel: 310617F  
A,CH,CS,E,MP

Hewlett-Packard France  
Tour Lorraine  
Boulevard de France  
F-91035 **EVRY Cedex**  
Tel: 16 6 077-96-60  
Telex: 692315F  
E

Hewlett-Packard France  
Parc d'Activite du Bois Briard  
Ave. du Lac  
F-91040 **EVRY Cedex**  
Tel: 16 6 077-8383  
Telex: 692315F  
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Hewlett-Packard France  
5, avenue Raymond Chanas  
F-38320 **EYBENS (Grenoble)**  
Tel: 16 (76) 25-81-41  
Telex: 980124 HP GRENOB EYBE  
CH

Hewlett-Packard France  
Centre d'Affaire Paris-Nord  
Bâtiment Ampère 5 étage  
Rue de la Commune de Paris  
Boite Postale 300  
F-93153 **LE BLANC MESNIL**  
Tel: 16 (1) 865-44-52  
Telex: 211032F  
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Hewlett-Packard France  
Parc d'Activités Cadera  
Quartier Jean Mermoz  
Avenue du Président JF Kennedy  
F-33700 **MERIGNAC (Bordeaux)**  
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Telex: 550105F  
CH,E,MS

Hewlett-Packard France  
Immueble "Les 3 B"  
Nouveau Chemin de la Garde  
ZAC de Bois Briand  
F-44085 **NANTES Cedex**  
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CH\*\*

# SALES & SUPPORT OFFICES

Arranged alphabetically by country

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F-91947 Les Ulis Cedex ORSAY  
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Hewlett-Packard France  
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F-75782 PARIS CEDEX 16  
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Hewlett-Packard France  
2 Allée de la Bourgonnette  
F-35100 RENNES  
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Hewlett-Packard France  
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F-76100 ROUEN  
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CH\*,CS

Hewlett-Packard France  
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CH,E,MS,P\*

Hewlett-Packard France  
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Hewlett-Packard France  
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F-26000 VALENCE  
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Hewlett-Packard France  
Carolor  
ZAC de Bois Briand  
F-57640 VIGY (Metz)  
Tel: 16 (8) 771 20 22  
CH

Hewlett-Packard France  
Immeuble Péricentre  
F-59658 VILLENEUVE D'ASCQ Cedex  
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Hewlett-Packard GmbH  
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Berner Strasse 117  
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D-6000 FRANKFURT 56  
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Hewlett-Packard GmbH  
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Aussenstelle Bad Homburg  
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Hewlett-Packard GmbH  
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D-2000 HAMBURG 60  
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Telex: 021 63 032 hphh d  
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Hewlett-Packard GmbH  
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D-6800 MANNHEIM  
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Hewlett-Packard GmbH  
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Telex: 0712816 HP ULM-D  
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Telex: 0623 860  
CH,CM,E,MS,P

Hewlett-Packard GmbH  
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## GREAT BRITAIN

See United Kingdom

## GREECE

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8 Omirou Street  
ATHENS 133  
Tel: 32 30 303, 32 37 371  
Telex: 215962 RKAR GR  
A,CH,CM,CS,E,M,P

PLAISIO S.A.  
G. Gerardos  
24 Stournara Street  
ATHENS  
Tel: 36-11-160  
Telex: 221871  
P

## GUATEMALA

IPESA  
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GUATEMALA CITY  
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Cable: HEWPACK HONG KONG  
E,CH,CS,P

CET Ltd.  
1402 Tung Wah Mansion  
199-203 Hennessy Rd.  
Wanchia, HONG KONG  
Tel: 5-729376  
Telex: 85148 CET HX  
CM

Schmidt & Co. (Hong Kong) Ltd.  
Wing On Centre, 28th Floor  
Connaught Road, C.  
HONG KONG  
Tel: 5-455644  
Telex: 74766 SCHMX HX  
A,M

## ICELAND

Elding Trading Company Inc.  
Hafnarvölli-Tryggvagötu  
P.O. Box 895  
IS-REYKJAVIK  
Tel: 1-58-20, 1-63-03  
M

## INDIA

Computer products are sold through  
Blue Star Ltd. All computer repairs and  
maintenance service is done through  
Computer Maintenance Corp.

Blue Star Ltd.  
Sabri Complex II Floor  
24 Residency Rd.  
BANGALORE 560 025  
Tel: 55660  
Telex: 0845-430  
Cable: BLUESTAR  
A,CH\*,CM,CS\*,E

Blue Star Ltd.  
Band Box House  
Prabhadevi  
BOMBAY 400 025  
Tel: 422-3101  
Telex: 011-3751  
Cable: BLUESTAR  
A,M

Blue Star Ltd.  
Sahas  
414/2 Vir Savarkar Marg  
Prabhadevi  
BOMBAY 400 025  
Tel: 422-6155  
Telex: 011-4093  
Cable: FROSTBLUE  
A,CH\*,CM,CS\*,E,M

Blue Star Ltd.  
Kalyan, 19 Vishwas Colony  
Alkapuri, BORDA, 390 005  
Tel: 65235  
Cable: BLUE STAR  
A

Blue Star Ltd.  
7 Hare Street  
CALCUTTA 700 001  
Tel: 12-01-31  
Telex: 021-7655  
Cable: BLUESTAR  
A,M

Blue Star Ltd.  
133 Kodambakkam High Road  
MADRAS 600 034  
Tel: 82057  
Telex: 041-379  
Cable: BLUESTAR  
A,M

Blue Star Ltd.  
Bhandari House, 7th/8th Floors  
91 Nehru Place  
NEW DELHI 110 024  
Tel: 682547  
Telex: 031-2463  
Cable: BLUESTAR  
A,CH\*,CM,CS\*,E,M

Blue Star Ltd.  
15/16-C Wellesley Rd.  
PUNE 411 011  
Tel: 22775  
Cable: BLUE STAR  
A

Blue Star Ltd.  
2-2-47/1108 Bolarum Rd.  
SECUNDERABAD 500 003  
Tel: 72057  
Telex: 0155-459  
Cable: BLUEFROST  
A,E

Blue Star Ltd.  
T.C. 7/603 Poornima  
Maruthankuzhi  
TRIVANDRUM 695 013  
Tel: 65799  
Telex: 0884-259  
Cable: BLUESTAR  
E

Computer Maintenance Corporation  
Ltd.  
115, Sarojini Devi Road  
SECUNDERABAD 500 003  
Tel: 310-184, 345-774  
Telex: 031-2960  
CH\*\*



# SALES & SUPPORT OFFICES

Arranged alphabetically by country

## INDONESIA

*BERCA Indonesia P.T.*  
P.O.Box 496/Jkt.  
Jl. Abdul Muis 62  
**JAKARTA**  
Tel: 21-373009  
Telex: 46748 BERSAL IA  
Cable: BERSAL JAKARTA  
P

*BERCA Indonesia P.T.*  
P.O.Box 2497/Jkt  
Antara Bldg., 17th Floor  
Jl. Medan Merdeka Selatan 17  
**JAKARTA-PUSAT**  
Tel: 21-344-181  
Telex: BERSAL IA  
A,CS,E,M

*BERCA Indonesia P.T.*  
P.O. Box 174/SBY.  
Jl. Kutei No. 11  
**SURABAYA**  
Tel: 68172  
Telex: 31146 BERSAL SB  
Cable: BERSAL-SURABAYA  
A\*,E,M,P

## IRAQ

Hewlett-Packard Trading S.A.  
Service Operation  
Al Mansoor City 9B/3/7  
**BAGHDAD**  
Tel: 551-49-73  
Telex: 212-455 HEPAIRAQ IK  
CH,CS

## IRELAND

Hewlett-Packard Ireland Ltd.  
82/83 Lower Leeson Street  
**DUBLIN 2**  
Tel: 0001 608800  
Telex: 30439  
A,CH,CM,CS,E,M,P  
*Cardiac Services Ltd.*  
Kilmore Road  
Arlane  
**DUBLIN 5**  
Tel: (01) 351820  
Telex: 30439  
M

## ISRAEL

*Eldan Electronic Instrument Ltd.*  
P.O.Box 1270  
**JERUSALEM 91000**  
16, Ohallav St.  
**JERUSALEM 94467**  
Tel: 533 221, 553 242  
Telex: 25231 AB/PAKRD IL  
A

*Electronics Engineering Division*  
*Motorola Israel Ltd.*  
16 Kremenetski Street  
P.O. Box 25016  
**TEL-AVIV 67899**  
Tel: 3 88 388  
Telex: 33569 Motil IL  
Cable: BASTEL Tel-Aviv  
CH,CM,CS,E,M,P

## ITALY

Hewlett-Packard Italiana S.p.A.  
Traversa 99C  
Via Giulio Petroni, 19  
I-70124 **BARI**  
Tel: (080) 41-07-44  
M

Hewlett-Packard Italiana S.p.A.  
Via Martin Luther King, 38/III  
I-40132 **BOLOGNA**  
Tel: (051) 402394  
Telex: 511630  
CH,E,MS

Hewlett-Packard Italiana S.p.A.  
Via Principe Nicola 43G/C  
I-95126 **CATANIA**  
Tel: (095) 37-10-87  
Telex: 970291  
C,P

Hewlett-Packard Italiana S.p.A.  
Via G. Di Vittorio 9  
I-20063 **CERNUSCO SUL NAVIGLIO**  
(Milano)  
Tel: (02) 923691  
Telex: 334632  
A,CH,CM,CS,E,MP,P  
Hewlett-Packard Italiana S.p.A.  
Via C. Colombo 49  
I-20090 **TREZZANO SUL NAVIGLIO**  
(Milano)  
Tel: (02) 4459041  
Telex: 322116  
C,M

Hewlett-Packard Italiana S.p.A.  
Via Nuova San Rocco a  
Capodimonte, 62/A  
I-80131 **NAPOLI**  
Tel: (081) 7413544  
Telex: 710698  
A,CH,E

Hewlett-Packard Italiana S.p.A.  
Viale G. Modugno 33  
I-16156 **GENOVA PEGLI**  
Tel: (010) 68-37-07  
Telex: 215238  
E,C

Hewlett-Packard Italiana S.p.A.  
Via Pelizzo 15  
I-35128 **PADOVA**  
Tel: (049) 664888  
Telex: 430315  
A,CH,E,MS

Hewlett-Packard Italiana S.p.A.  
Viale C. Pavese 340  
I-00144 **ROMA EUR**  
Tel: (06) 54831  
Telex: 610514  
A,CH,CM,CS,E,MS,P\*

Hewlett-Packard Italiana S.p.A.  
Via di Casellina 57/C  
I-50018 **SCANDICCI-FIRENZE**  
Tel: (055) 753863  
Hewlett-Packard Italiana S.p.A.  
Corso Svizzera, 185  
I-10144 **TORINO**  
Tel: (011) 74 4044  
Telex: 221079  
CH,E

## JAPAN

Yokogawa-Hewlett-Packard Ltd.  
152-1, Onna  
**ATSUGI**, Kanagawa, 243  
Tel: (0462) 28-0451  
CM,C\*,E

Yokogawa-Hewlett-Packard Ltd.  
Meiji-Seimei Bldg. 6F  
3-1 Hon Chiba-Cho  
**CHIBA**, 280  
Tel: 472 25 7701  
E,CH,CS

Yokogawa-Hewlett-Packard Ltd.  
Yasuda-Seimei Hiroshima Bldg.  
6-11, Hon-dori, Naka-ku  
**HIROSHIMA**, 730  
Tel: 82-241-0611

Yokogawa-Hewlett-Packard Ltd.  
Towa Building  
2-3, Kaigan-dori, 2 Chome Chuo-ku  
**KOBE**, 650  
Tel: (078) 392-4791  
C,E

Yokogawa-Hewlett-Packard Ltd.  
Kumagaya Asahi 82 Bldg  
3-4 Tsukuba  
**KUMAGAYA**, Saitama 360  
Tel: (0485) 24-6563  
CH,CM,E

Yokogawa-Hewlett-Packard Ltd.  
Asahi Shinbun Daiichi Seimei Bldg.  
4-7, Hanabata-cho  
**KUMAMOTO**, 860  
Tel: (0963) 54-7311  
CH,E

Yokogawa-Hewlett-Packard Ltd.  
Shin-Kyoto Center Bldg.  
614, Higashi-Shiokoji-cho  
Karasuma-Nishiiru  
Shiokoji-dori, Shimogyo-ku  
**KYOTO**, 600  
Tel: 075-343-0921  
CH,E

Yokogawa-Hewlett-Packard Ltd.  
Mito Mitsui Bldg  
4-73, Sanno-maru, 1 Chome  
**MITO**, Ibaraki 310  
Tel: (0292) 25-7470  
CH,CM,E

Yokogawa-Hewlett-Packard Ltd.  
Sumitomo Seimei 14-9 Bldg.  
Meieki-Minami, 2 Chome  
Nakamura-ku  
**NAGOYA**, 450  
Tel: (052) 571-5171  
CH,CM,CS,E,MS

Yokogawa-Hewlett-Packard Ltd.  
Chuo Bldg.,  
4-20 Nishinakajima, 5 Chome  
Yodogawa-ku  
**OSAKA**, 532  
Tel: (06) 304-6021  
Telex: YHPOSA 523-3624  
A,CH,CM,CS,E,MP,P\*

Yokogawa-Hewlett-Packard Ltd.  
27-15, Yabe, 1 Chome  
**SAGAMIHARA** Kanagawa, 229  
Tel: 0427 59-1311

Yokogawa-Hewlett-Packard Ltd.  
Daiichi Seimei Bldg.  
7-1, Nishi Shinjuku, 2 Chome  
Shinjuku-ku, **TOKYO** 160  
Tel: 03-348-4611  
CH,E

Yokogawa-Hewlett-Packard Ltd.  
29-21 Takaido-Higashi, 3 Chome  
Suginami-ku **TOKYO** 168  
Tel: (03) 331-611  
Telex: 232-2024 YHPTOK  
A,CH,CM,CS,E,MP,P\*

Yokogawa-Hewlett-Packard Ltd.  
Daiichi Asano Building  
2-8, Odori, 5 Chome  
**UTSUNOMIYA**, Tochigi 320  
Tel: (0286) 25-7155  
CH,CS,E

Yokogawa-Hewlett-Packard Ltd.  
Yasuda Seimei Nishiguchi Bldg.  
30-4 Tsuruya-cho, 3 Chome  
**YOKOHAMA** 221  
Tel: (045) 312-1252  
CH,CM,E

## JORDAN

*Mouasher Cousins Company*  
P.O. Box 1387  
**AMMAN**  
Tel: 24907, 39907  
Telex: 21456 SABCO JO  
CH,E,M,P

## KENYA

*ADCOM Ltd., Inc., Kenya*  
P.O.Box 30070  
**NAIROBI**  
Tel: 331955  
Telex: 22639  
E,M

## KOREA

*Samsung Electronics HP Division*  
12 Fl. Kinam Bldg.  
San 75-31, Yeoksam-Dong  
Kangnam-Ku  
Yeongdong P.O. Box 72  
**SEOUL**  
Tel: 555-7555, 555-5447  
Telex: K27364 SAMSAN  
A,CH,CM,CS,E,M,P

## KUWAIT

*Al-Khaldiya Trading & Contracting*  
P.O. Box 830 Safat  
**KUWAIT**  
Tel: 42-4910, 41-1726  
Telex: 22481 Areeg kt  
CH,E,M  
*Photo & Cine Equipment*  
P.O. Box 270 Safat  
**KUWAIT**  
Tel: 42-2846, 42-3801  
Telex: 22247 Matin kt  
P

## LEBANON

*G.M. Dolmadjian*  
Achrafieh  
P.O. Box 165.167  
**BEIRUT**  
Tel: 290293  
MP\*\*  
*Computer Information Systems*  
P.O. Box 11-6274  
**BEIRUT**  
Tel: 89 40 73  
Telex: 22259  
C

## LUXEMBOURG

Hewlett-Packard Belgium S.A./N.V.  
Blvd de la Woluwe, 100  
Woluwedal  
B-1200 **BRUSSELS**  
Tel: (02) 762-32-00  
Telex: 23-494 paloben bru  
A,CH,CM,CS,E,MP,P

## MALAYSIA

Hewlett-Packard Sales (Malaysia)  
Sdn. Bhd.  
1st Floor, Bangunan British  
American  
Jalan Semantan, Damansara Heights  
**KUALA LUMPUR** 23-03  
Tel: 943022  
Telex: MA31011  
A,CH,E,M,P\*

# SALES & SUPPORT OFFICES

Arranged alphabetically by country

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## MAYLAISIA (Cont'd)

Protel Engineering  
P.O. Box 1917  
Lot 6624, Section 64  
23/4 Pending Road  
Kuching, SARAWAK  
Tel: 36299  
Telex: MA 70904 PROMAL  
Cable: PROTELENG  
A,E,M

## MALTA

Philip Toledo Ltd.  
Notabile Rd.  
MRIEHEL  
Tel: 447 47, 455 66  
Telex: Media MW 649  
E,P

## MEXICO

Hewlett-Packard Mexicana, S.A.  
de C.V.  
Av. Periferico Sur No. 6501  
Tepepan, Xochimilco  
16020 MEXICO D.F.  
Tel: 6-76-46-00  
Telex: 17-74-507 HEWPACK MEX  
A,CH,CS,E,MS,P  
Hewlett-Packard Mexicana, S.A.  
de C.V.  
Ave. Colonia del Valle 409  
Col. del Valle  
Municipio de Garza Garcia  
MONTERREY, Nuevo Leon  
Tel: 78 42 41  
Telex: 038 410  
CH  
ECISA  
José Vasconcelos No. 218  
Col. Condesa Deleg. Cuauhtémoc  
MEXICO D.F. 06140  
Tel: 553-1206  
Telex: 17-72755 ECE ME  
M

## MOROCCO

Dolbeau  
81 rue Karatchi  
CASABLANCA  
Tel: 3041-82, 3068-38  
Telex: 23051, 22822  
E  
Gerep  
2 rue d'Agadir  
Boite Postale 156  
CASABLANCA  
Tel: 272093, 272095  
Telex: 23 739  
P

## NETHERLANDS

Hewlett-Packard Nederland B.V.  
Van Heuven Goedhartlaan 121  
NL 1181KK AMSTELVEEN  
P.O. Box 667  
NL 1180 AR AMSTELVEEN  
Tel: (020) 47-20-21  
Telex: 13 216 HEPAN NL  
A,CH,CM,CS,E,MP,P  
Hewlett-Packard Nederland B.V.  
Bongerd 2  
NL 2906VK CAPELLE A/D IJSSEL  
P.O. Box 41  
NL 2900AA CAPELLE A/D IJSSEL  
Tel: (10) 51-64-44  
Telex: 21261 HEPAC NL  
A,CH,CS,E

Hewlett-Packard Nederland B.V.  
Pastoor Petersstraat 134-136  
NL 5612 LV EINDHOVEN  
P.O. Box 2342  
NL 5600 CH EINDHOVEN  
Tel: (040) 326911  
Telex: 51484 hepae nl  
A,CH\*\* ,E,M

## NEW ZEALAND

Hewlett-Packard (N.Z.) Ltd.  
5 Owens Road  
P.O. Box 26-189  
Epsom, AUCKLAND  
Tel: 687-159  
Cable: HEWPACK Auckland  
CH,CM,E,P\*

Hewlett-Packard (N.Z.) Ltd.  
4-12 Cruickshank Street  
Kilbirnie, WELLINGTON 3  
P.O. Box 9443  
Courtenay Place, WELLINGTON 3  
Tel: 877-199  
Cable: HEWPACK Wellington  
CH,CM,E,P  
Northrop Instruments & Systems Ltd.  
369 Khyber Pass Road  
P.O. Box 8602  
AUCKLAND  
Tel: 794-091  
Telex: 60605  
A,M

Northrop Instruments & Systems Ltd.  
110 Mandeville St.  
P.O. Box 8388  
CHRISTCHURCH  
Tel: 486-928  
Telex: 4203  
A,M  
Northrop Instruments & Systems Ltd.  
Sturdee House  
85-87 Ghuznee Street  
P.O. Box 2406  
WELLINGTON  
Tel: 850-091  
Telex: NZ 3380  
A,M

## NORTHERN IRELAND

See United Kingdom

## NORWAY

Hewlett-Packard Norge A/S  
Folke Bernadottes vei 50  
P.O. Box 3558  
N-5033 FYLLINGSDALEN (Bergen)  
Tel: 0047/5/16 55 40  
Telex: 16621 hpnas n  
CH,CS,E,MS  
Hewlett-Packard Norge A/S  
Østerdalen 16-18  
P.O. Box 34  
N-1345 ØSTERÅS  
Tel: 0047/2/17 11 80  
Telex: 16621 hpnas n  
A,CH,CM,CS,E,M,P

## OMAN

Khimjil Ramdas  
P.O. Box 19  
MUSCAT  
Tel: 722225, 745601  
Telex: 3289 BROKER MB MUSCAT  
P  
Suhail & Saud Bahwan  
P.O. Box 169  
MUSCAT  
Tel: 734 201-3  
Telex: 3274 BAHWAN MB

## PAKISTAN

Mushko & Company Ltd.  
1-B, Street 43  
Sector F-8/1  
ISLAMABAD  
Tel: 51071  
Cable: FEMUS Rawalpindi  
A,E,M  
Mushko & Company Ltd.  
Oosman Chambers  
Abdullah Haroon Road  
KARACHI 0302  
Tel: 524131, 524132  
Telex: 2894 MUSKO PK  
Cable: COOPERATOR Karachi  
A,E,M,P\*

## PANAMA

Electrónico Balboa, S.A.  
Calle Samuel Lewis, Ed. Alfa  
Apartado 4929  
PANAMA 5  
Tel: 63-6613, 63-6748  
Telex: 3483 ELECTRON PG  
A,CM,E,M,P

## PERU

Cía Electro Médica S.A.  
Los Flamencos 145, San Isidro  
Casilla 1030  
LIMA 1  
Tel: 41-4325, 41-3703  
Telex: Pub. Booth 25306  
CM,E,M,P

## PHILIPPINES

The Online Advanced Systems  
Corporation  
Rico House, Amorsolo Cor. Herrera  
Street  
Legaspi Village, Makati  
P.O. Box 1510  
Metro MANILA  
Tel: 85-35-81, 85-34-91, 85-32-21  
Telex: 3274 ONLINE  
A,CH,CS,E,M  
Electronic Specialists and Proponents  
Inc.  
690-B Epifanio de los Santos Avenue  
Cubao, QUEZON CITY  
P.O. Box 2649 Manila  
Tel: 98-96-81, 98-96-82, 98-96-83  
Telex: 40018, 42000 ITT GLOBE  
MACKAY BOOTH  
P

## PORTUGAL

Mundinter  
Intercambio Mundial de Comércio  
S.A.R.L.  
P.O. Box 2761  
Av. Antonio Augusto de Aguiar 138  
P-LISBON  
Tel: (19) 53-21-31, 53-21-37  
Telex: 16691 munter p  
M  
Soquimica  
Av. da Liberdade, 220-2  
1298 LISBOA Codex  
Tel: 56 21 81/2/3  
Telex: 13316 SABASA  
P  
Telectra-Empresa Técnica de  
Equipamentos Eléctricos S.A.R.L.  
Rua Rodrigo da Fonseca 103  
P.O. Box 2531  
P-LISBON 1  
Tel: (19) 68-60-72  
Telex: 12598  
CH,CS,E,P

## PUERTO RICO

Hewlett-Packard Puerto Rico  
Ave. Muñoz Rivera #101  
Esq. Calle Ochoa  
HATO REY, Puerto Rico 00918  
Tel: (809) 754-7800  
Hewlett-Packard Puerto Rico  
Calle 272 Edificio 203  
Urb. Country Club  
RIO PIEDRAS, Puerto Rico  
P.O. Box 4407  
CAROLINA, Puerto Rico 00628  
Tel: (809) 762-7255  
A,CH,CS

## QATAR

Compute Arabia  
P.O. Box 2750  
DOHA  
Tel: 883555  
Telex: 4806 CHPARB  
P  
Eastern Technical Services  
P.O. Box 4747  
DOHA  
Tel: 329 993  
Telex: 4156 EASTEC DH  
Nasser Trading & Contracting  
P.O. Box 1563  
DOHA  
Tel: 22170, 23539  
Telex: 4439 NASSER DH  
M

## SAUDI ARABIA

Modern Electronic Establishment  
Hewlett-Packard Division  
P.O. Box 22015  
Thuobah  
AL-KHOBAR  
Tel: 895-1760, 895-1764  
Telex: 671 106 HPMEEK SJ  
Cable: ELECTA AL-KHOBAR  
CH,CS,E,M  
Modern Electronic Establishment  
Hewlett-Packard Division  
P.O. Box 1228  
Redec Plaza, 6th Floor  
JEDDAH  
Tel: 644 38 48  
Telex: 4027 12 FARNAS SJ  
Cable: ELECTA JEDDAH  
CH,CS,E,M  
Modern Electronic Establishment  
Hewlett-Packard Division  
P.O. Box 22015  
RIYADH  
Tel: 491-97 15, 491-63 87  
Telex: 202049 MEERYD SJ  
CH,CS,E,M  
Abdul Ghani El Ajou  
P.O. Box 78  
RIYADH  
Tel: 40 41 717  
Telex: 200 932 EL AJOU  
P

## SCOTLAND

See United Kingdom

## SINGAPORE

Hewlett-Packard Singapore (Sales)  
Pte. Ltd.  
#08-00 Inchcape House  
450-2 Alexandra Road  
P.O. Box 58 Alexandra Rd. Post Office  
SINGAPORE, 9115  
Tel: 631788  
Telex: HPSGSO RS 34209  
Cable: HEWPACK, Singapore  
A,CH,CS,E,MS,P





# SALES & SUPPORT OFFICES

Arranged alphabetically by country

## SINGAPORE (Cont'd)

*Dynamar International Ltd.*  
Unit 05-11 Block 6  
Kolam Ayer Industrial Estate  
**SINGAPORE 1334**  
Tel: 747-6188  
Telex: RS 26283  
CM

## SOUTH AFRICA

Hewlett-Packard So Africa (Pty.) Ltd.  
P.O. Box 120  
Howard Place **CAPE PROVINCE 7450**  
Pine Park Center, Forest Drive,  
Pinelands

## CAPE PROVINCE 7405

Tel: 53-7954  
Telex: 57-20006  
A,CH,CM,E,MS,P

Hewlett-Packard So Africa (Pty.) Ltd.

P.O. Box 37099  
92 Overport Drive  
**DURBAN 4067**

Tel: 28-4178, 28-4179, 28-4110

Telex: 6-22954  
CH,CM

Hewlett-Packard So Africa (Pty.) Ltd.

6 Linton Arcade  
511 Cape Road  
Linton Grange

## PORT ELIZABETH 6000

Tel: 041-302148  
CH

Hewlett-Packard So Africa (Pty.) Ltd.

P.O.Box 33345

## Glenstantia 0010 TRANSVAAL

1st Floor East

Constantia Park Ridge Shopping  
Centre

Constantia Park

## PRETORIA

Tel: 982043  
Telex: 32163  
CH,E

Hewlett-Packard So Africa (Pty.) Ltd.

Private Bag Wendywood

## SANDTON 2144

Tel: 802-5111, 802-5125

Telex: 4-20877

Cable: HEWPACK Johannesburg

A,CH,CM,CS,E,MS,P

## SPAIN

Hewlett-Packard Española S.A.

Calle Entenza, 321

## E-BARCELONA 29

Tel: 322.24.51, 321.73.54

Telex: 52603 hpbee

A,CH,CS,E,MS,P

Hewlett-Packard Española S.A.

Calle San Vicente S/No

Edificio Albia II

## E-BILBAO 1

Tel: 423.83.06

A,CH,E,MS

Hewlett-Packard Española S.A.

Ctra. de la Coruña, Km. 16, 400

Las Rozas

## E-MADRID

Tel: (1) 637.00.11

CH,CS,M

Hewlett-Packard Española S.A.

Avda. S. Francisco Javier, S/No

Planta 10. Edificio Sevilla 2,

## E-SEVILLA 5

Tel: 64.44.54

Telex: 72933

A,CS,MS,P

Hewlett-Packard Española S.A.

Calle Ramon Gordillo, 1 (Entlo.3)

## E-VALENCIA 10

Tel: 361-1354

CH,P

## SWEDEN

Hewlett-Packard Sverige AB

Sunnanvagen 14K

## S-22226 LUND

Tel: (046) 13-69-79

Telex: (854) 17886 (via Spånga

office)

CH

Hewlett-Packard Sverige AB

Östra Tullgatan 3

## S-21128 MALMÖ

Tel: (040) 70270

Telex: (854) 17886 (via Spånga

office)

CH

Hewlett-Packard Sverige AB

Västra Vintergatan 9

## S-70344 ÖREBRO

Tel: (19) 10-48-80

Telex: (854) 17886 (via Spånga

office)

CH

Hewlett-Packard Sverige AB

Skalholtsgatan 9, Kista

Box 19

## S-16393 SPÅNGA

Tel: (08) 750-2000

Telex: (854) 17886

Telefax: (08) 7527781

A,CH,CM,CS,E,MS,P

Hewlett-Packard Sverige AB

Frötällsgatan 30

## S-42132 VÄSTRA-FRÖLUNDA

Tel: (031) 49-09-50

Telex: (854) 17886 (via Spånga

office)

CH,E,P

## SWITZERLAND

Hewlett-Packard (Schweiz) AG

Clarastrasse 12

## CH-4058 BASEL

Tel: (61) 33-59-20

A

Hewlett-Packard (Schweiz) AG

7, rue du Bois-du-Lan

Case Postale 365

## CH-1217 MEYRIN 2

Tel: (0041) 22-83-11-11

Telex: 27333 HPAG CH

CH,CM,CS

Hewlett-Packard (Schweiz) AG

Allmend 2

## CH-8967 WIDEN

Tel: (0041) 57 31 21 11

Telex: 53933 hpag ch

Cable: HPAG CH

A,CH,CM,CS,E,MS,P

## SYRIA

General Electronic Inc.

Nuri Basha Ahnaf Ebn Kays Street

P.O. Box 5781

## DAMASCUS

Tel: 33-24-87

Telex: 411 215

Cable: ELECTROBOR DAMASCUS

E

*Middle East Electronics*

P.O.Box 2308

Abu Rummaneh

## DAMASCUS

Tel: 33 4 5 92

Telex: 411 304

M

## TAIWAN

Hewlett-Packard Far East Ltd.

Kaohsiung-Office

2/F 68-2, Chung Cheng 3rd Road

## KAOHSIUNG

Tel: (07) 241-2318

CH,CS,E

Hewlett-Packard Far East Ltd.

Taiwan Branch

8th Floor

337 Fu Hsing North Road

## TAIPEI

Tel: (02) 712-0404

Telex: 24439 HEWPACK

Cable: HEWPACK Taipei

A,CH,CM,CS,E,M,P

*Ing Lih Trading Co.*

3rd Floor, 7 Jen-Ai Road, Sec. 2

## TAIPEI 100

Tel: (02) 3948191

Cable: INGLIH TAIPEI

A

## THAILAND

*Unimesa*

30 Patpong Ave., Suriwong

## BANGKOK 5

Tel: 235-5727

Telex: 84439 Simonco TH

Cable: UNIMESA Bangkok

A,CH,CS,E,M

*Bangkok Business Equipment Ltd.*

5/5-6 Dejo Road

## BANGKOK

Tel: 234-8670, 234-8671

Telex: 87669-BEQUIPT TH

Cable: BUSIQUIPT Bangkok

P

## TRINIDAD & TOBAGO

*Caribbean Telecoms Ltd.*

50/A Jerningham Avenue

P.O. Box 732

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Tel: 62-44213, 62-44214

Telex: 235,272 HUGCO WG

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## TUNISIA

*Tunisie Electronique*

31 Avenue de la Liberte

## TUNIS

Tel: 280-144

E,P

*Corema*

1 ter. Av. de Carthage

## TUNIS

Tel: 253-821

Telex: 12319 CABAM TN

M

## TURKEY

*Teknim Company Ltd.*

Iran Caddesi No. 7

Kavaklidere, ANKARA

Tel: 275800

Telex: 42155 TKNM TR

E

E.M.A.

Medina Eldem Sokak No.4.1/6

Yuksej Caddesi

## ANKARA

Tel: 175 622

Telex: 42 591

M

## UNITED ARAB EMIRATES

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P.O. Box 2711

## ABU DHABI

Tel: 82 04 19-20

Cable: EMITAC ABUDHABI

Emitac Ltd.

P.O. Box 1641

## SHARJAH

Tel: 591 181

Telex: 68136 Emitac Sh

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### GREAT BRITAIN

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Telex: 444302

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Tel: 0727 24400

Telex: 1-8952716

CH,CS

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Telex: 557355

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Arranged alphabetically by country

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Telex: 339105  
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Tel: 0734 696622  
Telex: 848884  
E

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Hewlett-Packard Ltd.  
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Easthampstead, **WOKINGHAM**  
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## IRELAND

### NORTHERN IRELAND

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### SCOTLAND

Hewlett-Packard Ltd.  
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West Lothian, EH30 9TG  
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Hewlett-Packard Co.  
420 Wynn Drive  
**HUNTSVILLE, AL** 35805  
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**HUNTSVILLE, AL** 35807  
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### Arizona

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8080 Pointe Parkway West  
**PHOENIX, AZ** 85044  
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Hewlett-Packard Co.  
2424 East Aragon Road  
**TUCSON, AZ** 85706  
Tel: (602) 889-4631  
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### California

Hewlett-Packard Co.  
99 South Hill Dr.  
**BRISBANE, CA** 94005  
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Hewlett-Packard Co.  
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Hewlett-Packard Co.  
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1430 East Orangethorpe  
**FULLERTON, CA** 92631  
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Hewlett-Packard Co.  
320 S. Kellogg, Suite B  
**GOLETA, CA** 93117  
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CH

Hewlett-Packard Co.  
5400 W. Rosecrans Boulevard  
**LAWDALE, CA** 90260  
P.O. Box 92105  
**LOS ANGELES, CA** 90009  
Tel: (213) 970-7500  
Telex: 910-325-6608  
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3155 Porter Oaks Drive  
**PALO ALTO, CA** 94304  
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4244 So. Market Court, Suite A  
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3005 Scott Boulevard  
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5750B N. Hoover Blvd., Suite 123  
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**TAMPA, FL** 33614  
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304 Eldorado Road  
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Hewlett-Packard Co.  
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7804 East Funston Road, #203  
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Hewlett-Packard Co.  
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**TROY, MI** 48084  
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2025 W. Larpenteur Ave.  
**ST. PAUL, MN** 55113  
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**KANSAS CITY, MO** 64137  
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### New Jersey

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A,CH,CM,CS,E,MP  
Hewlett-Packard Co.  
60 New England Av. West  
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### New Mexico

Hewlett-Packard Co.  
11300 Lomas Blvd., N.E.  
P.O. Box 11634  
ALBUQUERQUE, NM 87112  
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### New York

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ALBANY, NY 12205  
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A,CH,E,MS  
Hewlett-Packard Co.  
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P.O. Box AC  
CLARENCE, NY 14031  
Tel: (716) 759-8621  
CH  
Hewlett-Packard Co.  
200 Cross Keys Office Park  
FAIRPORT, NY 14450  
Tel: (716) 223-9950  
CH,CM,CS,E,MS  
Hewlett-Packard Co.  
7641 Henry Clay Blvd.  
LIVERPOOL, NY 13088  
Tel: (315) 451-1820  
A,CH,CM,E,MS  
Hewlett-Packard Co.  
No. 1 Pennsylvania Plaza  
55th Floor  
34th Street & 8th Avenue  
MANHATTAN NY 10119  
Tel: (212) 971-0800  
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Hewlett-Packard Co.  
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WHITE PLAINS, NY 10604  
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Hewlett-Packard Co.  
3 Crossways Park West  
WOODBURY, NY 11797  
Tel: (516) 921-0300  
A,CH,CM,CS,E,MS  
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5605 Roanne Way  
P.O. Box 26500  
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Tel: (919) 852-1800  
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GREENSBORO, NC 27420  
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Hewlett-Packard Co.  
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Hewlett-Packard Co.  
16500 Sprague Road  
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Tel: (216) 243-7300  
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COLUMBUS, OH 43229  
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Hewlett-Packard Co.  
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Hewlett-Packard Co.  
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VALLEY FORGE, PA 19482  
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### Hewlett-Packard Co.

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Hewlett-Packard Co.  
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KNOXVILLE, TN 37922  
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Hewlett-Packard Co.  
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### Utah

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SALT LAKE CITY, UT 84119  
Tel: (801) 974-1700  
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### Virginia

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Hewlett-Packard Co.  
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Hewlett-Packard Co.  
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### West Virginia

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### Wisconsin

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## VENEZUELA

Hewlett-Packard de Venezuela C.A.  
3RA Transversal Los Ruices Norte  
Edificio Segre 1, 2 & 3  
Apartado 50933  
CARACAS 1071  
Tel: 239-4133  
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Hewlett-Packard de Venezuela C.A.  
Calle-72-Entre 3H y 3Y, No. 3H-40  
Edificio Ada-Evelyn, Local B  
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4001, MARACAIBO, Estado Zulia  
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CH,CS,P  
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July 1983 5952-6900  
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Part No. 80070-90028  
E0282  
Printed in U.S.A. 2/82

