

Distributed Systems Network



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



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



HEWLETT
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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.

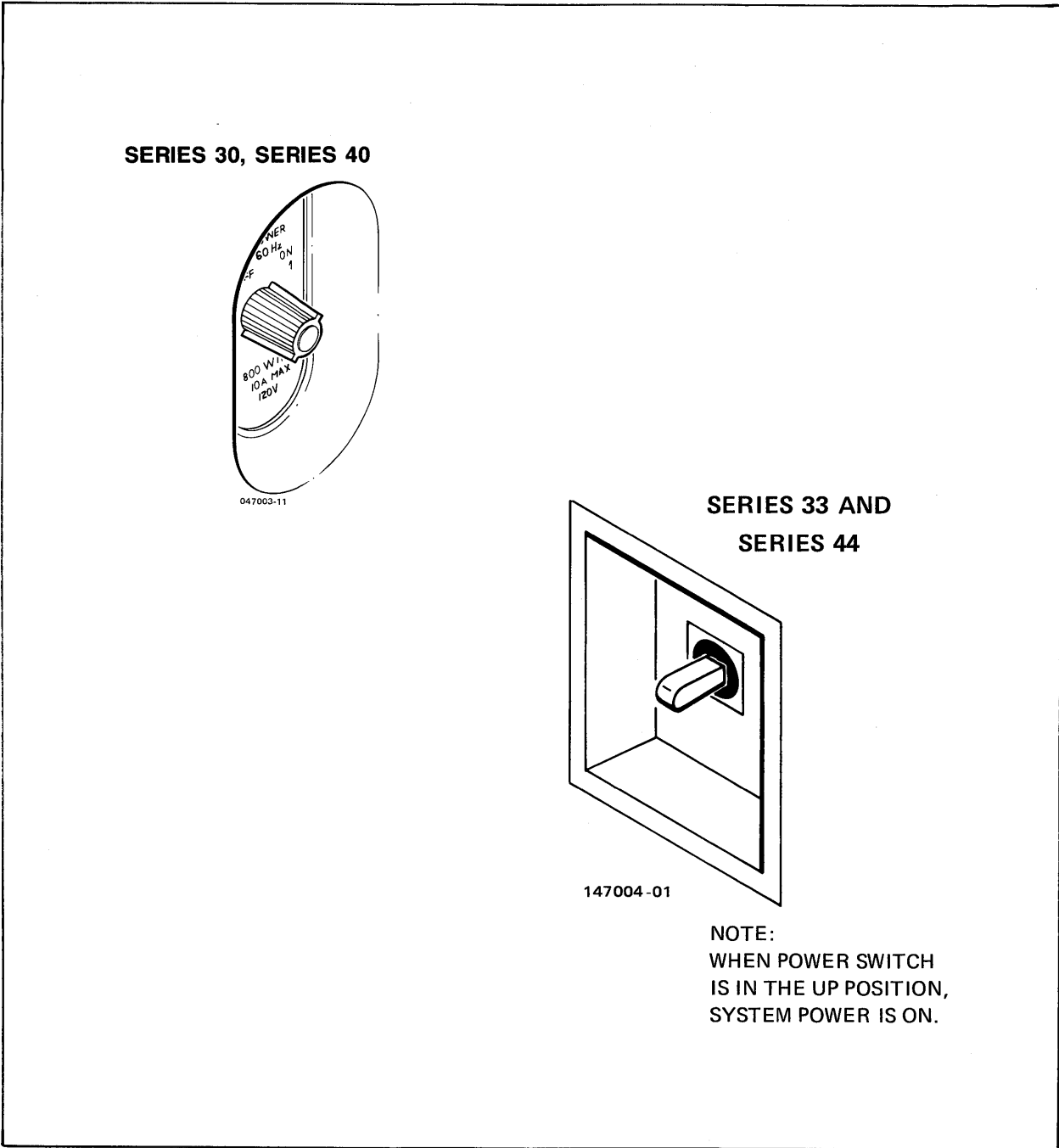
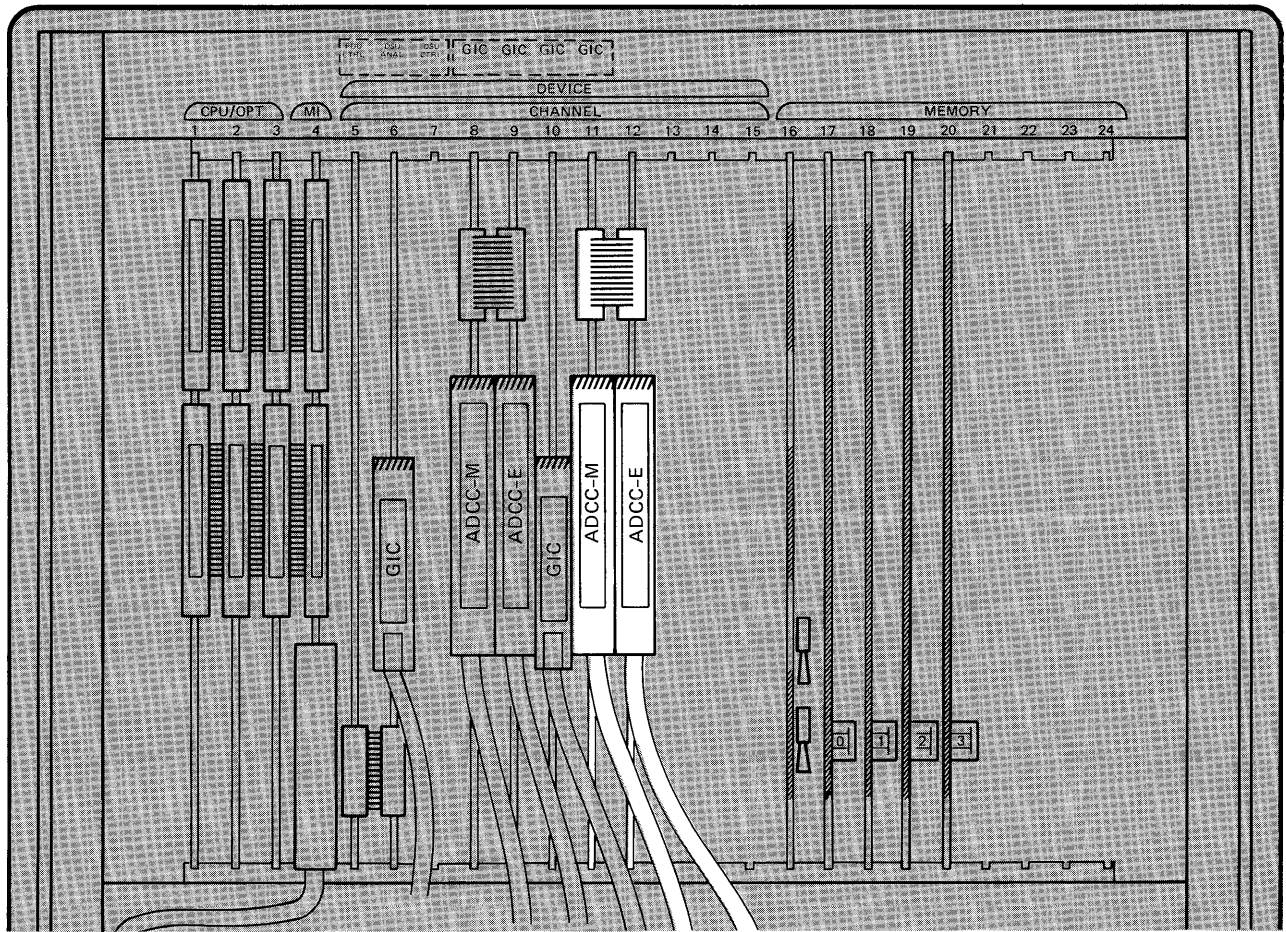
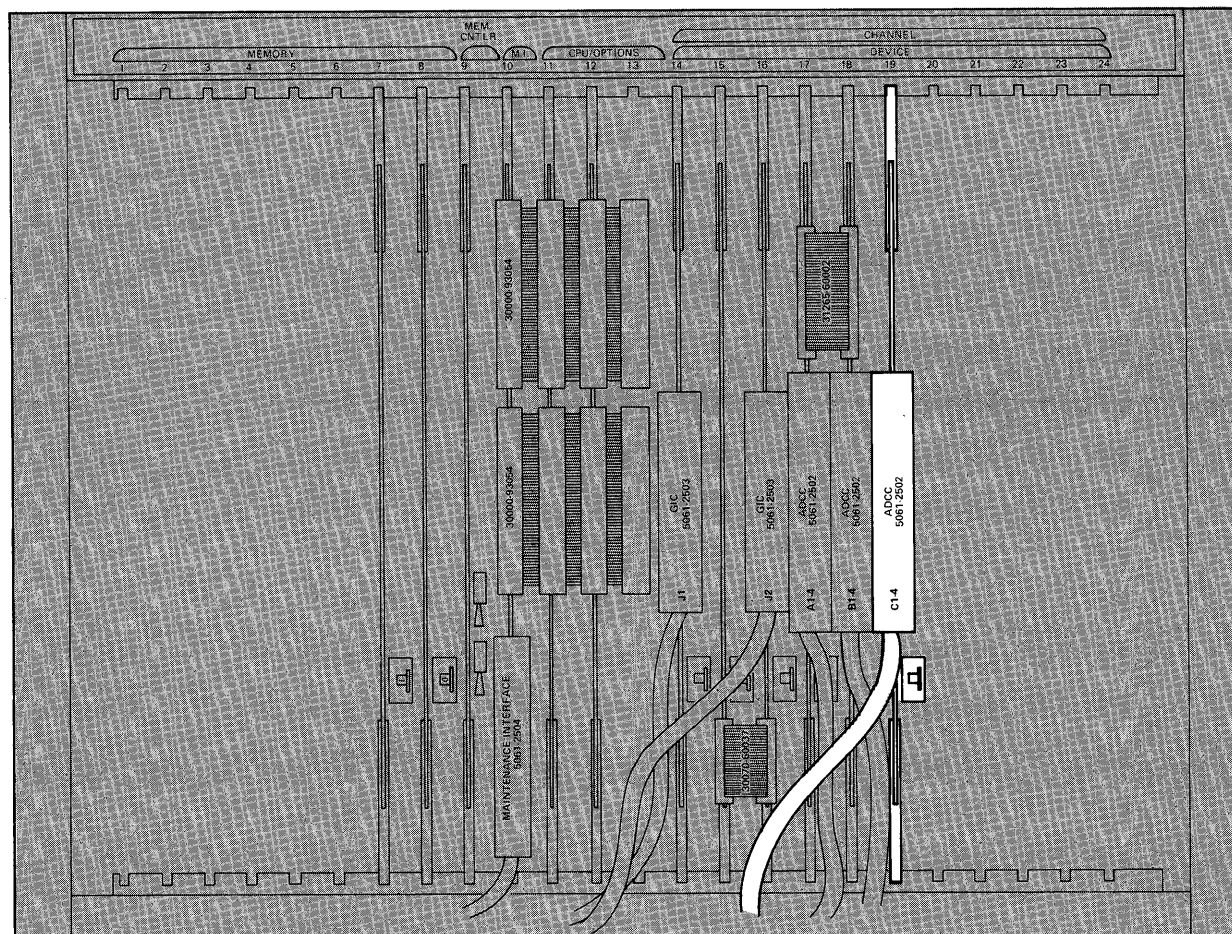


Figure 1. Processor Power Switch



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Figure 2. Series 30 Card Cage Assignments

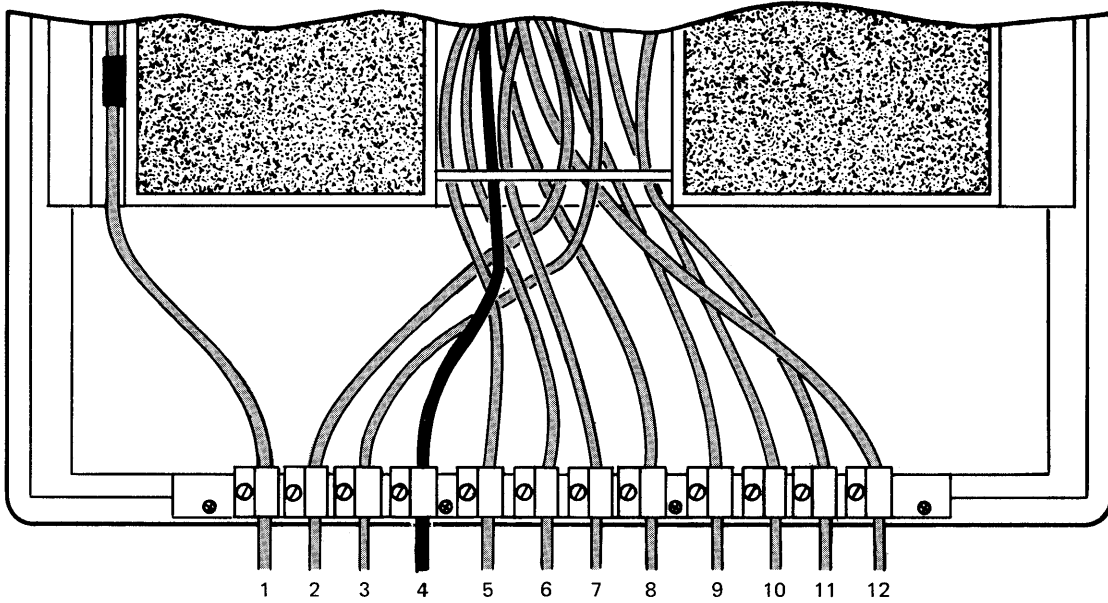


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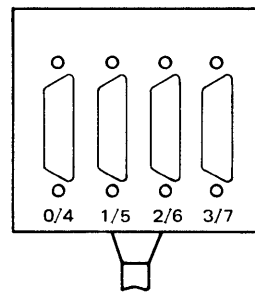
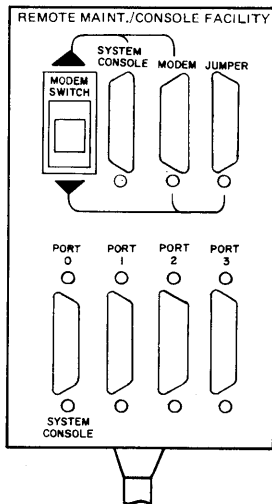
NOTE

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

Figure 4. Series 30 Cable Routing Area

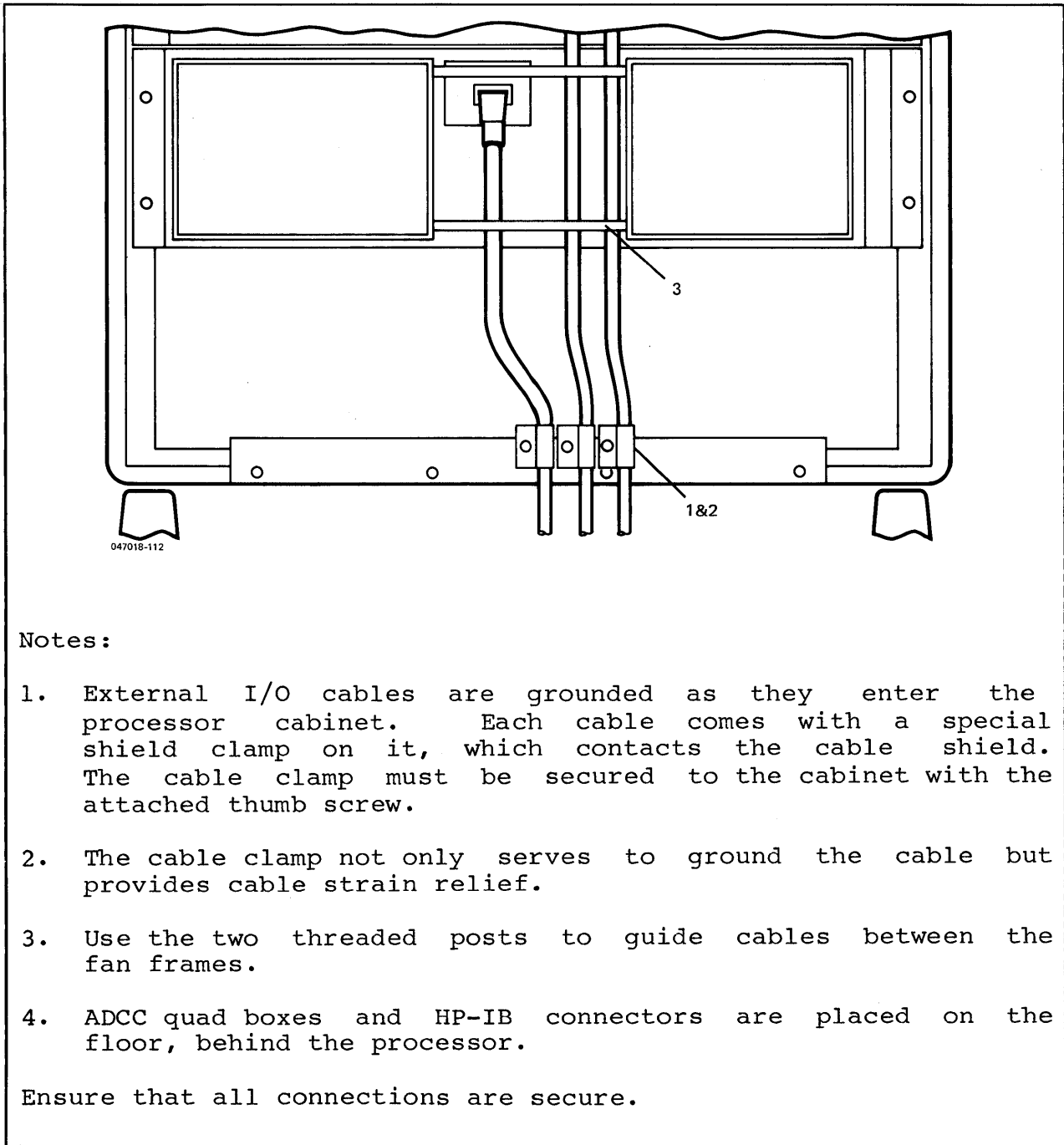


Figure 5. Series 40 Cable Routing Diagram

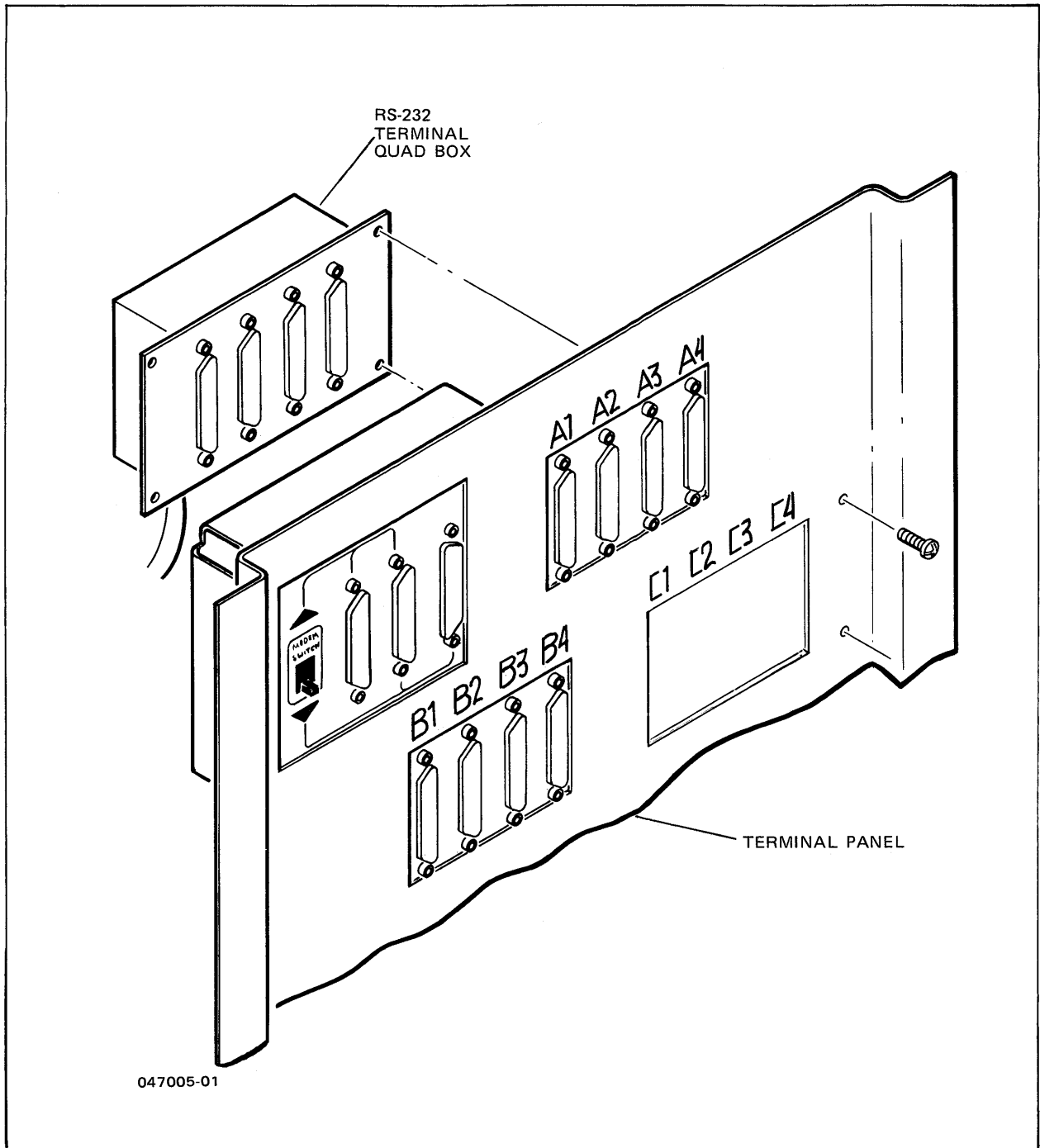


Figure 6. Series 33 Terminal Panel

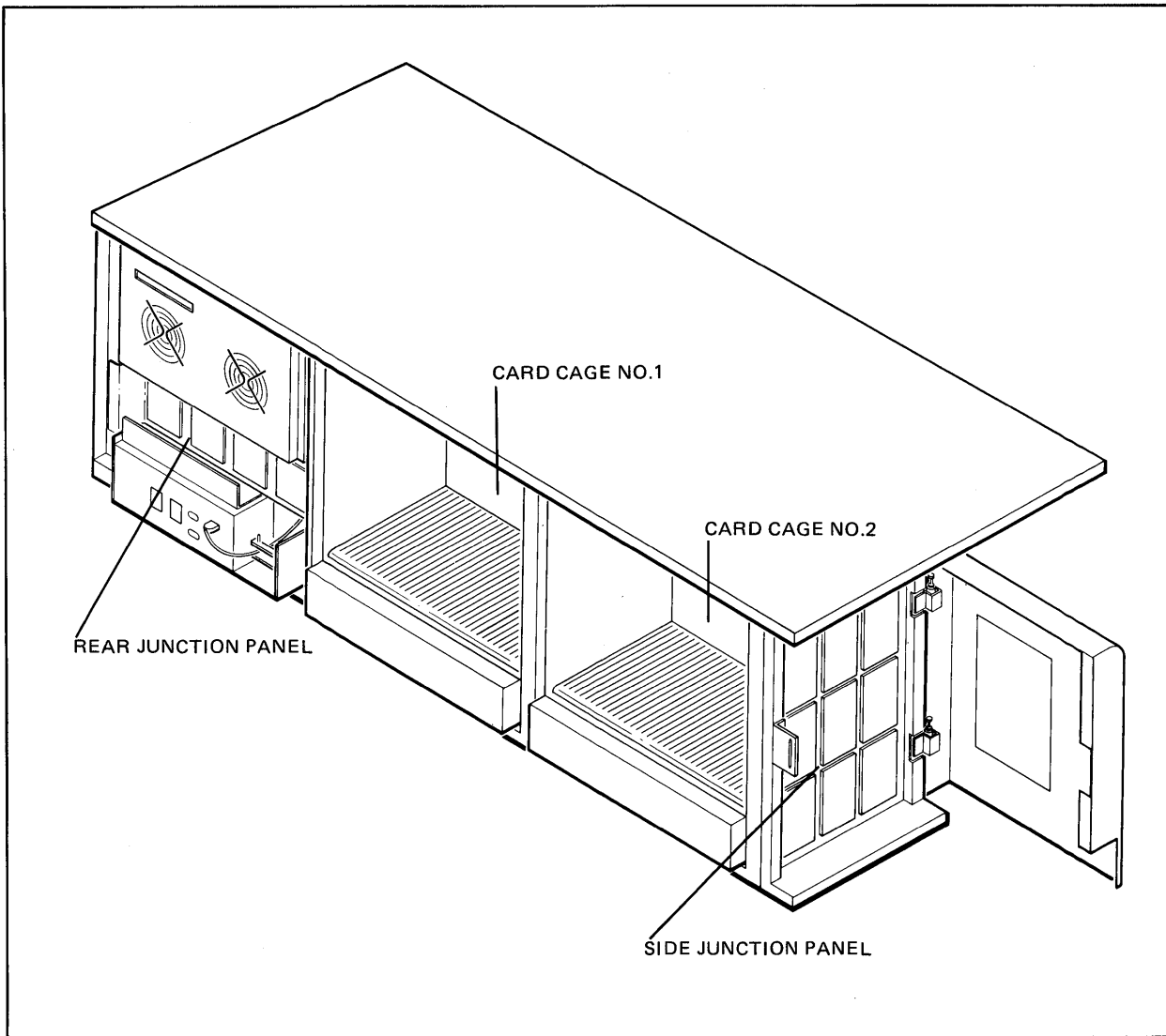


Figure 7. Series 44 Mainframe (Rear View)

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

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	MEM ARRAY 1024-1280	MEM ARRAY 1280-1536	MEM ARRAY 1536-1792	MEM ARRAY 1792-2048	MEMORY CONTROLLER	CMP	CTL	ALU	PCS	ADCC M (CH 1)	ADCC E	GIC (CH 11)									

ADDITIONAL GIC'S,
ADCC'S, INP'S, AND
PRINTER TRANSLATORS

NOTES:

1. GICs must be installed in the following channel number order: 11, 9, 10, 13, 12.
2. INPs and printer translator PCAs 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 GICs that are added.

147022-15

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)

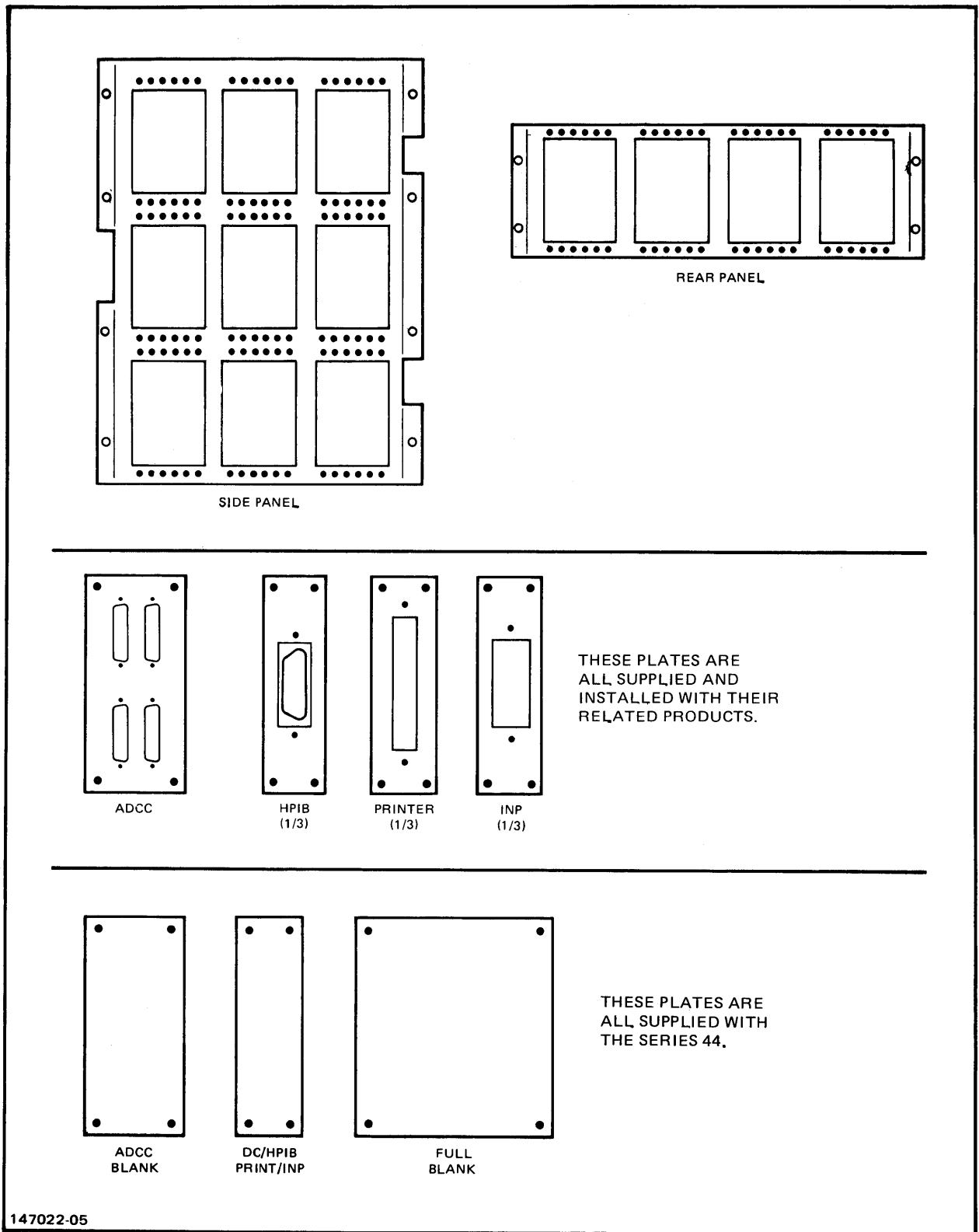
CARD CAGE 2

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	4	—	4
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	0	—	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	4	—	4
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	0	—	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.

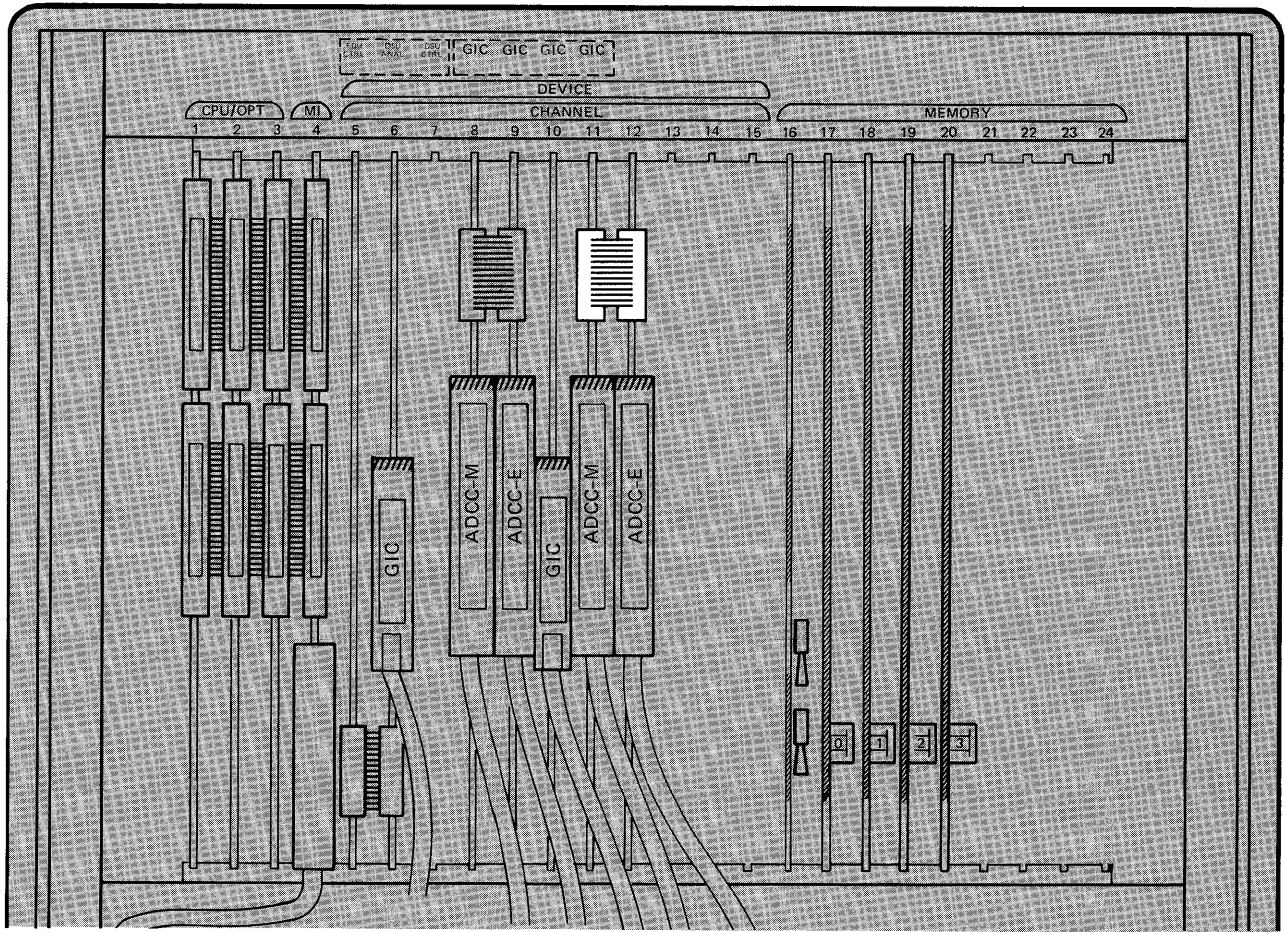
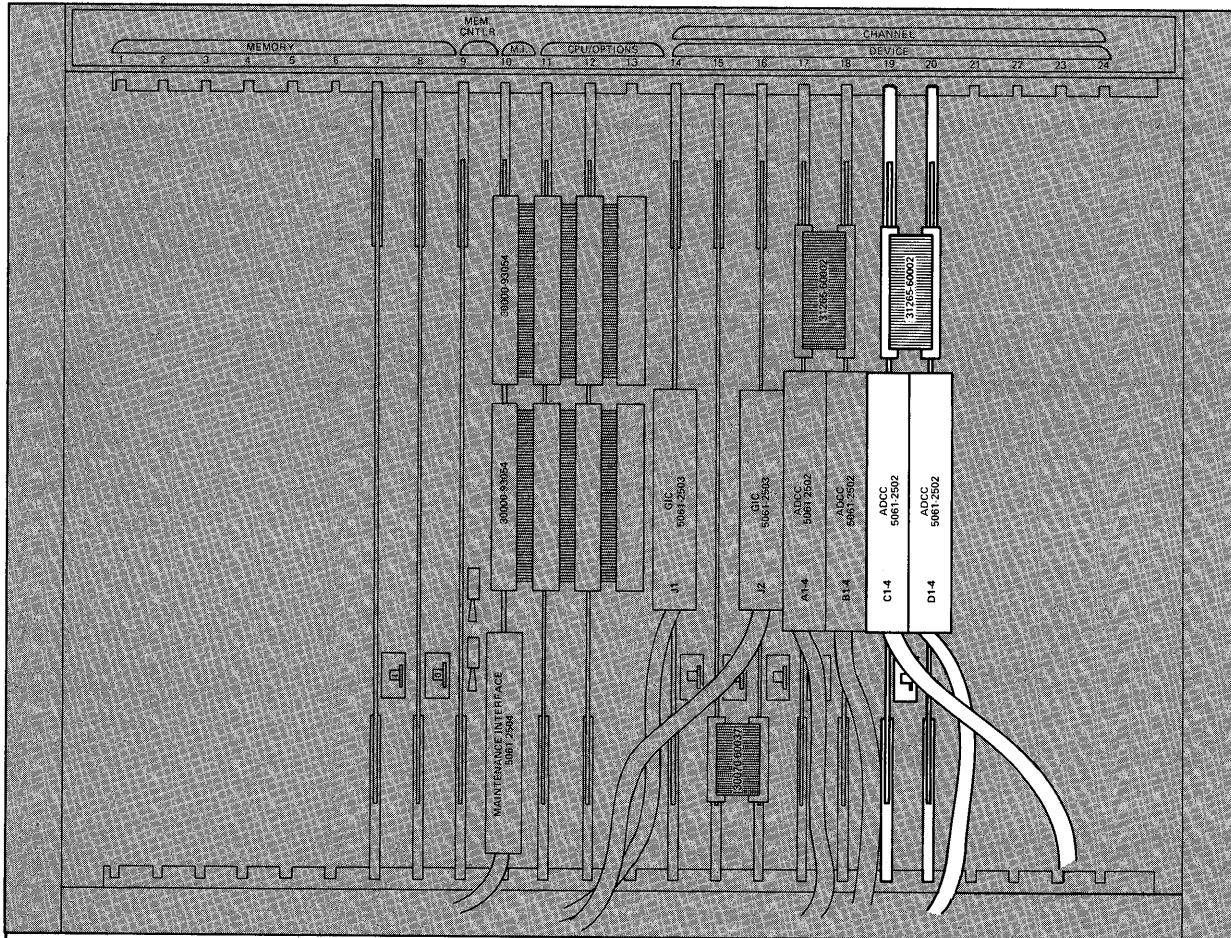


Figure 14. Series 30 ADCC-M to ADCC-E Interconnect



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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 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

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Installation Manual
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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
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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
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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
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MITO, Ibaraki 310
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CH,CM,E

Yokogawa-Hewlett-Packard Ltd.
Sumitomo Seimei 14-9 Bldg.
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NAGOYA, 450
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CH,CM,CS,E,MS

Yokogawa-Hewlett-Packard Ltd.
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Yodogawa-ku
OSAKA, 532
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Yokogawa-Hewlett-Packard Ltd.
27-15, Yabe, 1 Chome
SAGAMIHARA Kanagawa, 229
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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
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Telex: 232-2024 YHPTOK
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30-4 Tsuruya-cho, 3 Chome
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JORDAN

Mouasher Cousins Company
P.O. Box 1387
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CH,E,M,P

KENYA

ADCOM Ltd., Inc., Kenya
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NAIROBI
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E,M

KOREA

Samsung Electronics HP Division
12 Fl. Kinam Bldg.
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Kangnam-Ku
Yeongdong P.O. Box 72
SEOUL
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Telex: K27364 SAMSAN
A,CH,CM,CS,E,M,P

KUWAIT

Al-Khaldiya Trading & Contracting
P.O. Box 830 Safat
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Telex: 22481 Areeg kt
CH,E,M
Photo & Cine Equipment
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Telex: 22247 Matin kt
P

LEBANON

G.M. Dolmadjian
Achrafieh
P.O. Box 165.167
BEIRUT
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C

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Hewlett-Packard Belgium S.A./N.V.
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Woluwedal
B-1200 **BRUSSELS**
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Telex: 23-494 paloben bru
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Arranged alphabetically by country

5



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Cable: PROTELENG
A,E,M

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Telex: Media MW 649
E,P

MEXICO

Hewlett-Packard Mexicana, S.A.
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Telex: 17-74-507 HEWPACK MEX
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Hewlett-Packard Mexicana, S.A.
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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

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CASABLANCA
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Telex: 23051, 22822
E
Gerep
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P

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A,CH** ,E,M

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Northrop Instruments & Systems Ltd.
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AUCKLAND
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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
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A,M

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N-1345 ØSTERÅS
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OMAN

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

PAKISTAN

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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
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Electrónico Balboa, S.A.
Calle Samuel Lewis, Ed. Alfa
Apartado 4929
PANAMA 5
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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
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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.
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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.
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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.
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Urb. Country Club
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A,CH,CS

QATAR

Compute Arabia
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DOHA
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Telex: 4806 CHPARB
P
Eastern Technical Services
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DOHA
Tel: 329 993
Telex: 4156 EASTEC DH
Nasser Trading & Contracting
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DOHA
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Telex: 4439 NASSER DH
M

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P

SCOTLAND

See United Kingdom

SINGAPORE

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SALES & SUPPORT OFFICES

Arranged alphabetically by country

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CM

SOUTH AFRICA

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Howard Place CAPE PROVINCE 7450
Pine Park Center, Forest Drive,
Pinelands
CAPE PROVINCE 7405
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Telex: 57-20006
A,CH,CM,E,MS,P
Hewlett-Packard So Africa (Pty.) Ltd.
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92 Overport Drive
DURBAN 4067
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Telex: 6-22954
CH,CM

Hewlett-Packard So Africa (Pty.) Ltd.
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511 Cape Road
Linton Grange
PORT ELIZABETH 6000
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CH

Hewlett-Packard So Africa (Pty.) Ltd.
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Constantia Park Ridge Shopping
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PRETORIA
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CH,E

Hewlett-Packard So Africa (Pty.) Ltd.
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SANDTON 2144
Tel: 802-5111, 802-5125
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A,CH,CS,E,MS,P

Hewlett-Packard Española S.A.
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E-BILBAO 1
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A,CH,E,MS

Hewlett-Packard Española S.A.
Ctra. de la Coruña, Km. 16, 400
Las Rozas
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A,CS,MS,P

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CH,P

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CH

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CH-1217 MEYRIN 2
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Allmend 2
CH-8967 WIDEN
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A,CH,CM,CS,E,MS,P

SYRIA

General Electronic Inc.
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DAMASCUS
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Telex: 411 215
Cable: ELECTROBOR DAMASCUS
E

Middle East Electronics
P.O.Box 2308
Abu Rummaneh
DAMASCUS
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M

TAIWAN

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CH,CS,E

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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
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Tel: 234-8670, 234-8671
Telex: 87669-BEQUIPT TH
Cable: BUSIQUIPT Bangkok
P

TRINIDAD & TOBAGO

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Telex: 235,272 HUGCO WG
CM,E,M,P

TUNISIA

Tunisie Electronique
31 Avenue de la Liberte
TUNIS
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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
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Telex: 42 591
M

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P.O. Box 2711
ABU DHABI
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Emitac Ltd.
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SHARJAH
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CH,CS,E,M,P

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CH,CS

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SALES & SUPPORT OFFICES

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CH,CS

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CH,CM,CS,E,M,P

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