HP 3000 Computer Systems

SERIES 39/40/42/44/48 COMPUTER
HP 30079A GIC ADD-ON

Installation Manual

HEWLETT PACKARD

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LIST OF EFFECTIVE PAGES

The List of Effective Pages gives the date of the current edition, and lists the dates of all pages of that edition and all updates. Within the manual, any page changed since the last edition is indicated by printing the date the changes were made on the bottom of the page. Changes are marked with a vertical bar in the margin. If an update is incorporated when an edition is reprinted, these bars and dates remain. No information is incorporated into a reprinting unless it appears as a prior update.

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INTRODUCTION AND PROCEDURE

INTRODUCTION

Contact your local Hewlett-Packard field service office to arrange for the installation of this product. Have the system operator back-up the system as described in the Console Operators Guide.

This manual contains the procedures for installing an HP 30079A General Interface Controller (GIC) in a functional, installed HP 3000 Series 39/40/42/44/48 computer system. The procedure is intended for use by Hewlett-Packard Customer Engineers trained on HP Series 39/40/42/44/48 computer systems.

This product, used to add a GIC to an HP Series 39/40/42/44/48 computer, consists of the following parts:

For HP 3000 44/48 Systems

31262-60001	GIC PCA
30080-60026	GIC CABLE

For HP 3000 39/40/42 Systems

31262-60001	GIC PCA
30080-60026	GIC CABLE

PROCEDURE

a. The system should be backed up by the system operator prior to beginning the installation.

b. Turn the Processor Power Switch to OFF. (See figure 1.)

CAUTION

During the next step be sure to wear a grounding strap and follow standard ESD precautions when handling PCAs.

c. Install the new GIC PCA (P/N 31262-60001) in the next available GIC card cage slot. GIC PCAs must be installed in the following channel and slot number order. (See figure 2 and 3.)

For Series 44/48:

Channel 11 in slot 16
Channels 9, 10, 13 in slots 22 thru 24 respectively
Channel 12 in slot E7 of 2nd card cage

For Series 39/40/42:

Channel 11 in slot 15
Channel 9 in slot 9
Channel 10 in slot 19
Channel 13 in slot 25

d. For Series 44/48, route the HP-IB GIC cable from the next available side or rear junction panel position to the GIC PCA. (See figures 4 thru 7.)

For Series 39/40/42, route the HP-IB GIC cable down to the bottom of the cabinet and ground the cable's braided shield to the bottom edge of the cabinet.

e. Select channel number on GIC PCA according to Configuration Matrix. (Refer to table 1.)

f. Connect the desired device to the new channel and select its HP-IB device address according to the Configuration Matrix. Refer to table 2 for configuration restrictions.

g. Turn the processor power Switch to ON and run the I/O MAP and GIC diagnostics. Refer to Diagnostic Manual Set (P/N 30070-60068).

h. Run appropriate standalone diagnostics, self tests, and/or Sleuthsm verifier programs on any new peripherals.

i. Cold Start the system from the back-up media and configure the new channel and device(s) on the system. Refer to "Functions of the Console Operator" in the Console Operators Guide, if necessary.

NOTE

Use previously installed GICs as a model for cable routings and connections.

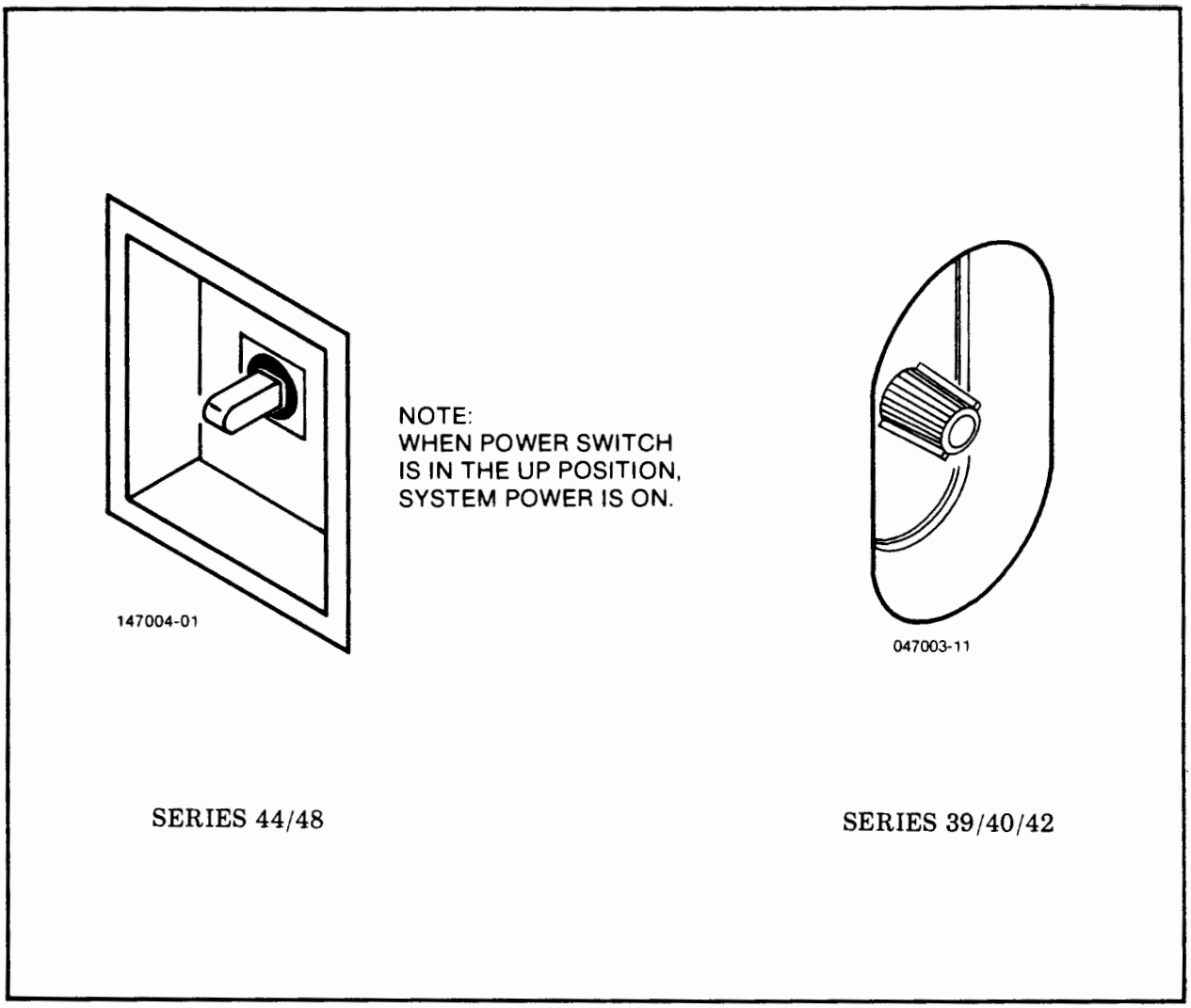

Figure 1. Processor Power Switch

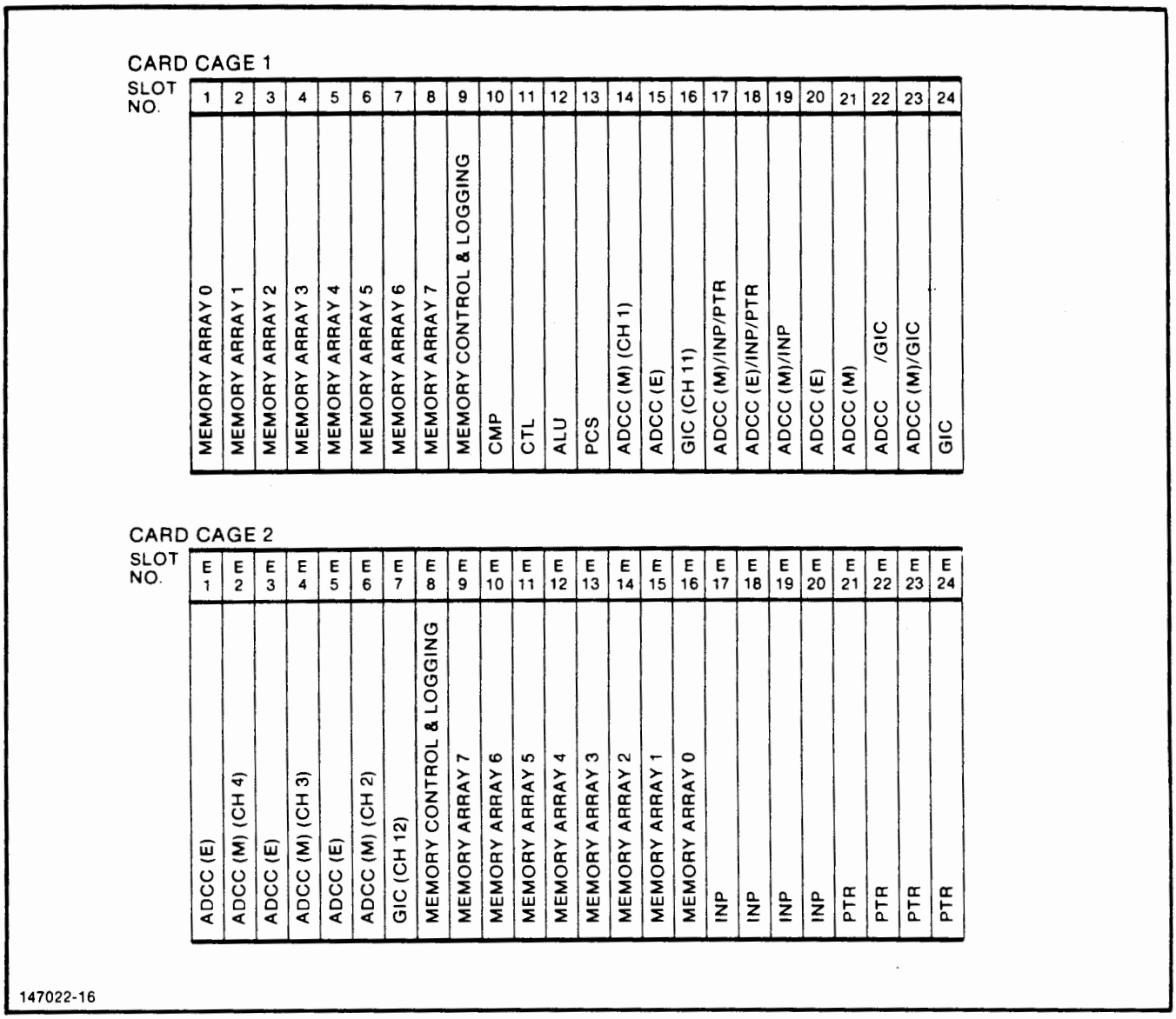

Figure 2. Series 44/48 Slot Locations (maximum configuration)

NOTE

Slots 11 and 13 in card cage one are both occupied for Series 44. Series 48 requires only a CPS PCA in slot 13. Slot 11 will be empty.

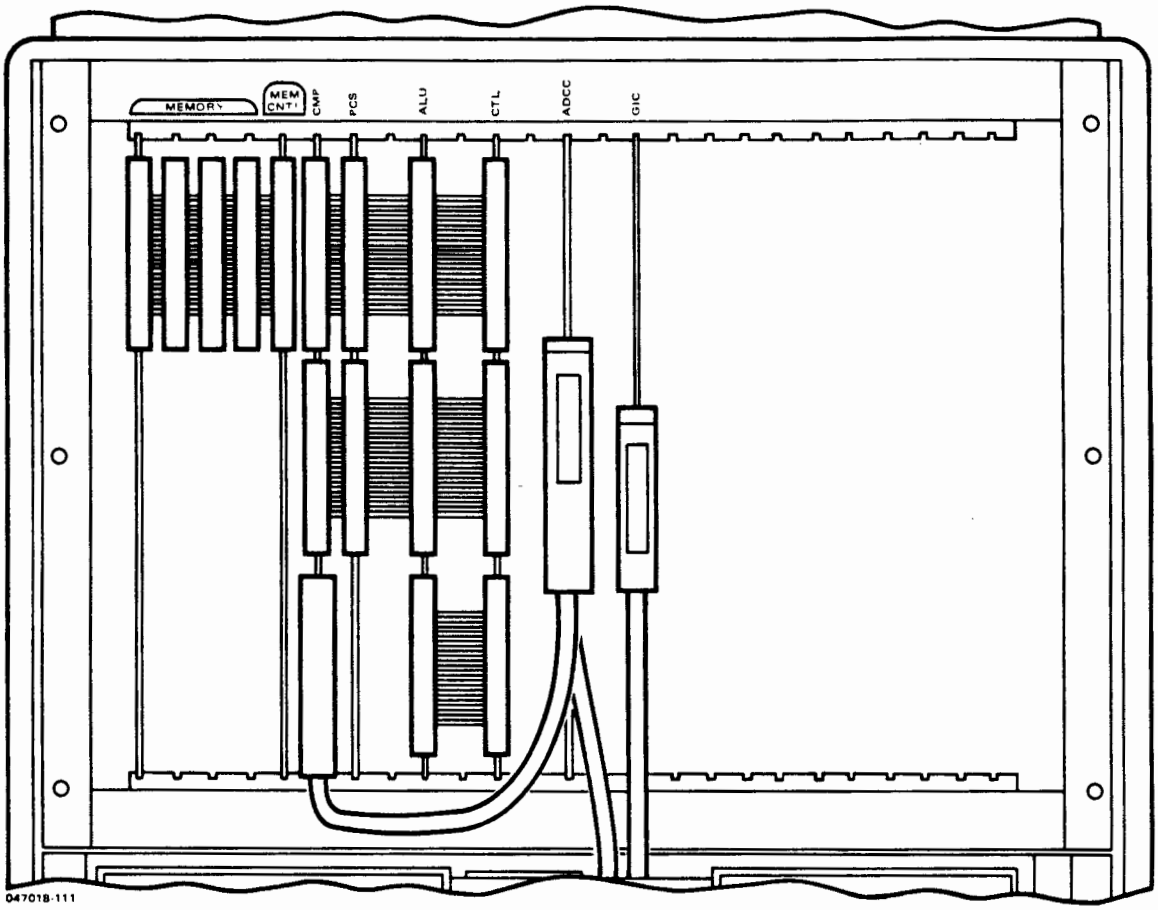

Figure 3. Series 39/40/42 Slot locations

NOTE

Slots marked PCS and CTL are both occupied for Series 39 and 40. Series 42 requires only a CPS or CPS-E PCA in the slot marked CPS; the slot between the CMP and ALU PCAs will be empty.

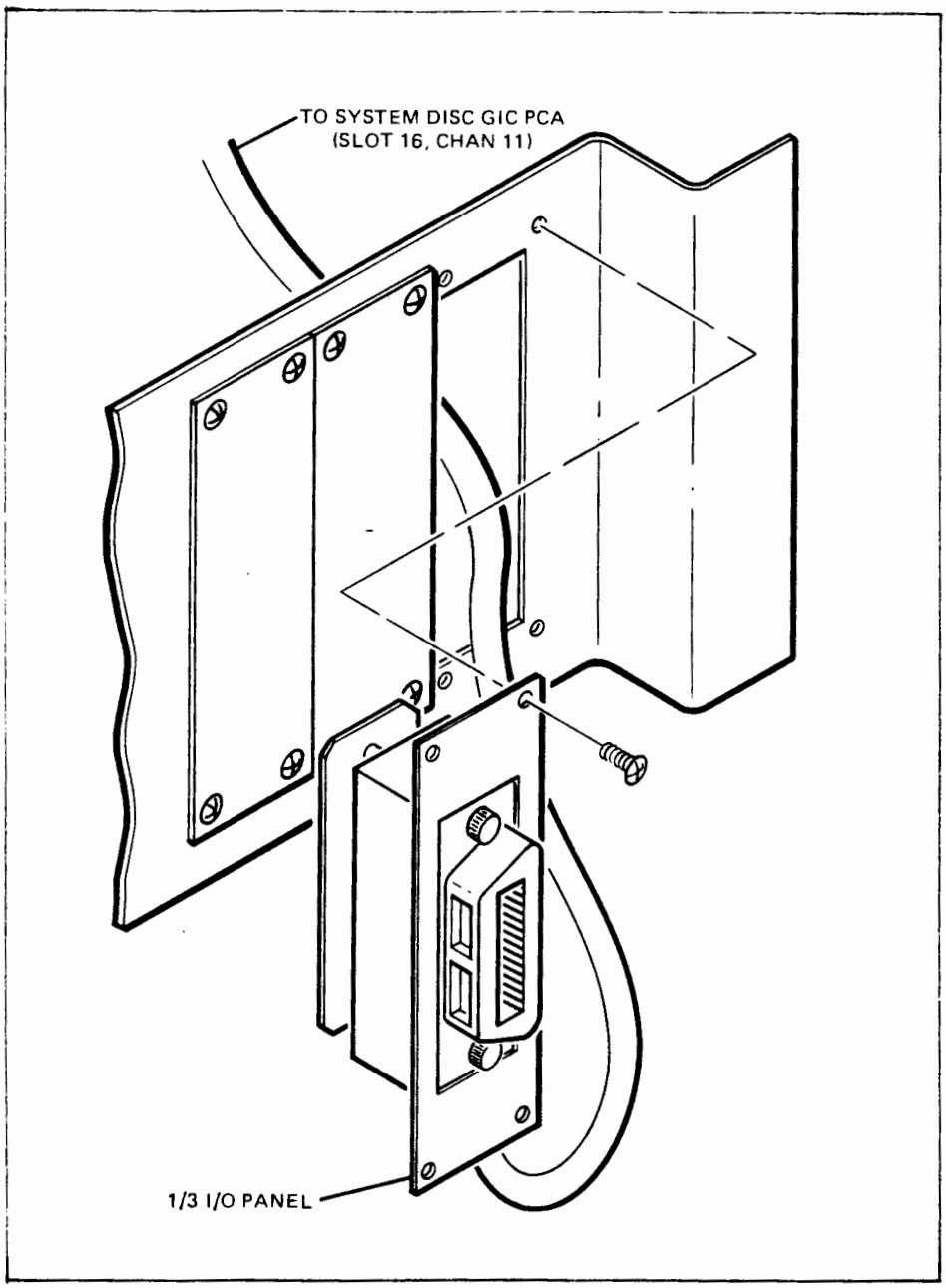

Figure 4. Series 44/48 Rear Junction Panel

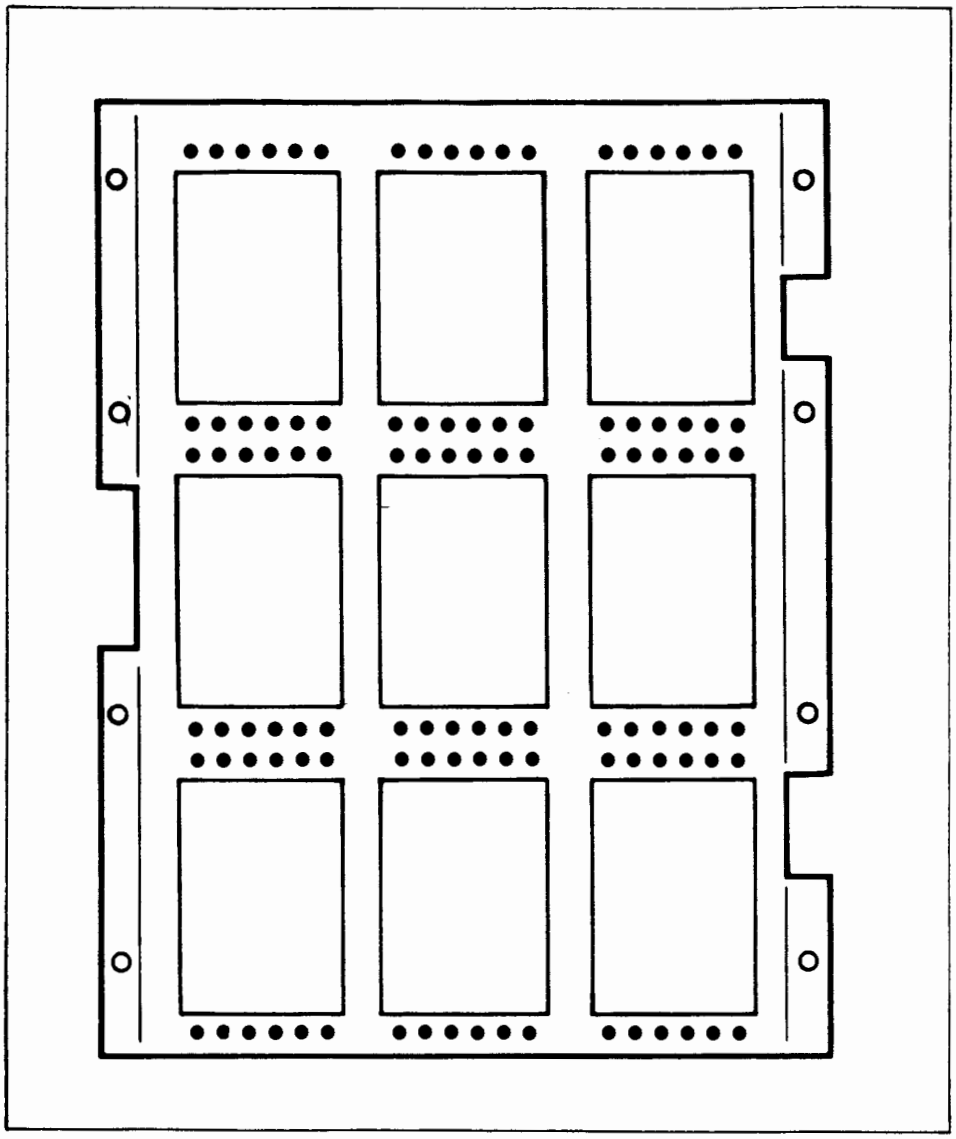

Figure 5. Series 44/48 Side Junction Panel

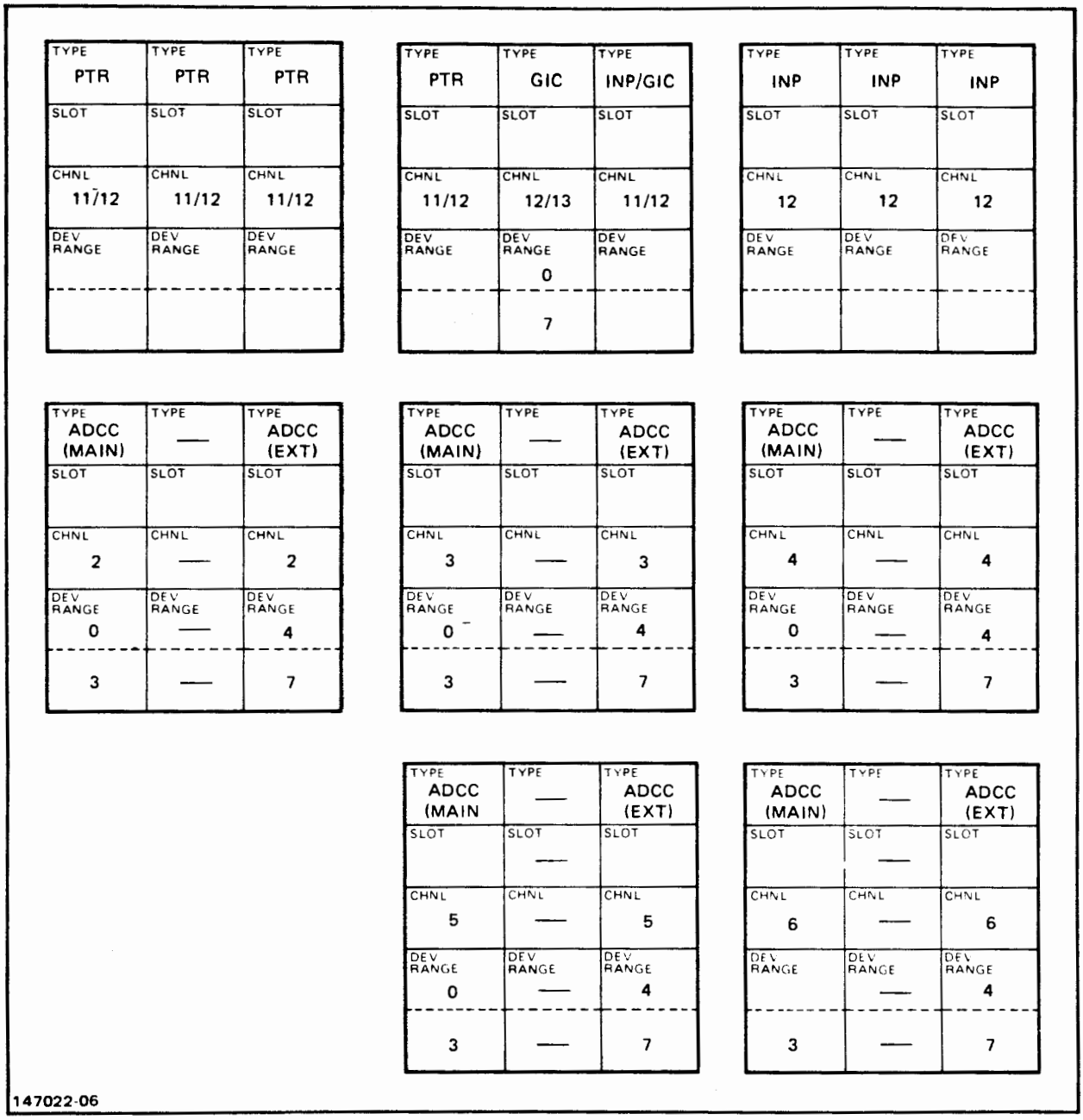

Figure 6. Series 44/48 Side Junction Panel Identification Chart

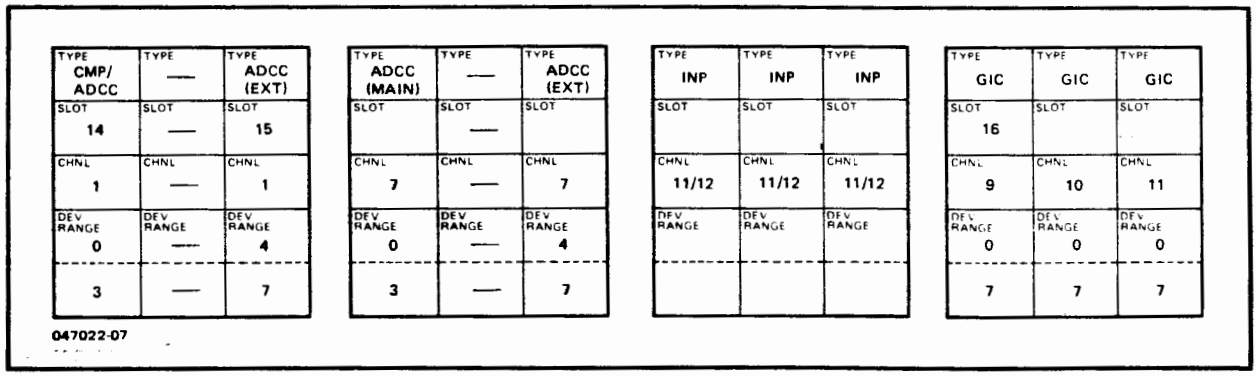

Figure 7. Series 44/48 Rear Junction Panel Identification Chart

Table 1. Suggested System Configuration Matrix

Device Type	Channel No.	Device No.
Tape Drives (1 thru 4)	9	1
Tape Drives (5 thru 8)	10	1
System Disc Controller	11	0,1
Line Printers	11	2 thru 4
INP's	11	5 thru 7
Flexible Disc Drive	12	0
Additional Line Printers	12	0 thru 3
Additional INP's	12	4 thru 7
HP 2608A printer	13	1

Table 2. GIC Configuration Restrictions

Channel 9	One tape drive master only
Channel 10	One tape drive master only
Channel 11	Disc drives and internal peripherals only
Channel 12	No disc drives, three external peripherals only, up to eight internal peripherals
Channel 13	One 2680A laser printer only

NOTE

Maximum possible GICs on Series 39/40/42 is four.

READER COMMENT SHEET

Series 39/40/42/44/48 Computer HP 30079A GIC Add-On

30079-90002 April 1984

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