

**HP 12897A**  
**Dual-Channel Port Controller**  
**installation manual**



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HEWLETT-PACKARD COMPANY  
11000 WOLFE ROAD, CUPERTINO, CALIFORNIA, 95014



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## INTRODUCTION

This manual provides installation instructions for the HP 12897A Dual-Channel Port Controller, which is an accessory for the HP 21MX Computer Series. For additional information, refer to the **HP 21MX Computer Series Reference Manual**, part no. 02108-90002, and the **HP 21MX Computer Series Installation and Service Manual**, part no. 02108-90006.

## DESCRIPTION

The dual-channel port controller (DCPC) enables high-speed data transfers between processor memory and any peripheral device normally serviced through the processor input/output (I/O) system.

## INSTALLATION

Install the dual-channel port controller (DCPC) in the processor as follows:

### WARNING

*Hazardous voltages are exposed when the top cover is removed and ac power is applied.*

### CAUTION

Standard procedure for removing or installing a PCA in the memory PCA cage is to turn off both line and battery power. However, when power to the memory is turned off, all contents of memory are lost. Therefore, before turning off line and battery power, ensure that any memory contents to be saved are stored in another device for later retrieval.

- a. On rear panel, set BATTERY and ~LINE switches to OFF.
- b. Loosen the two quarter-turn fasteners on the operator panel and lower it to the access position.

- c. Remove memory PCA retainer from memory PCA cage.
- d. Loosen the screw in rear fold of top cover. Slide top cover toward rear and remove.
- e. Insert DCPC PCA, part no. 12897-60001, in memory PCA cage slot 110. (See figure 1.)
- f. Connect cable assembly, part no. 12897-60002, between DCPC PCA connector J1 and crossover PCA connector A6J1.
- g. Reinstall memory PCA retainer, operator panel, and top cover.

## CHECKOUT

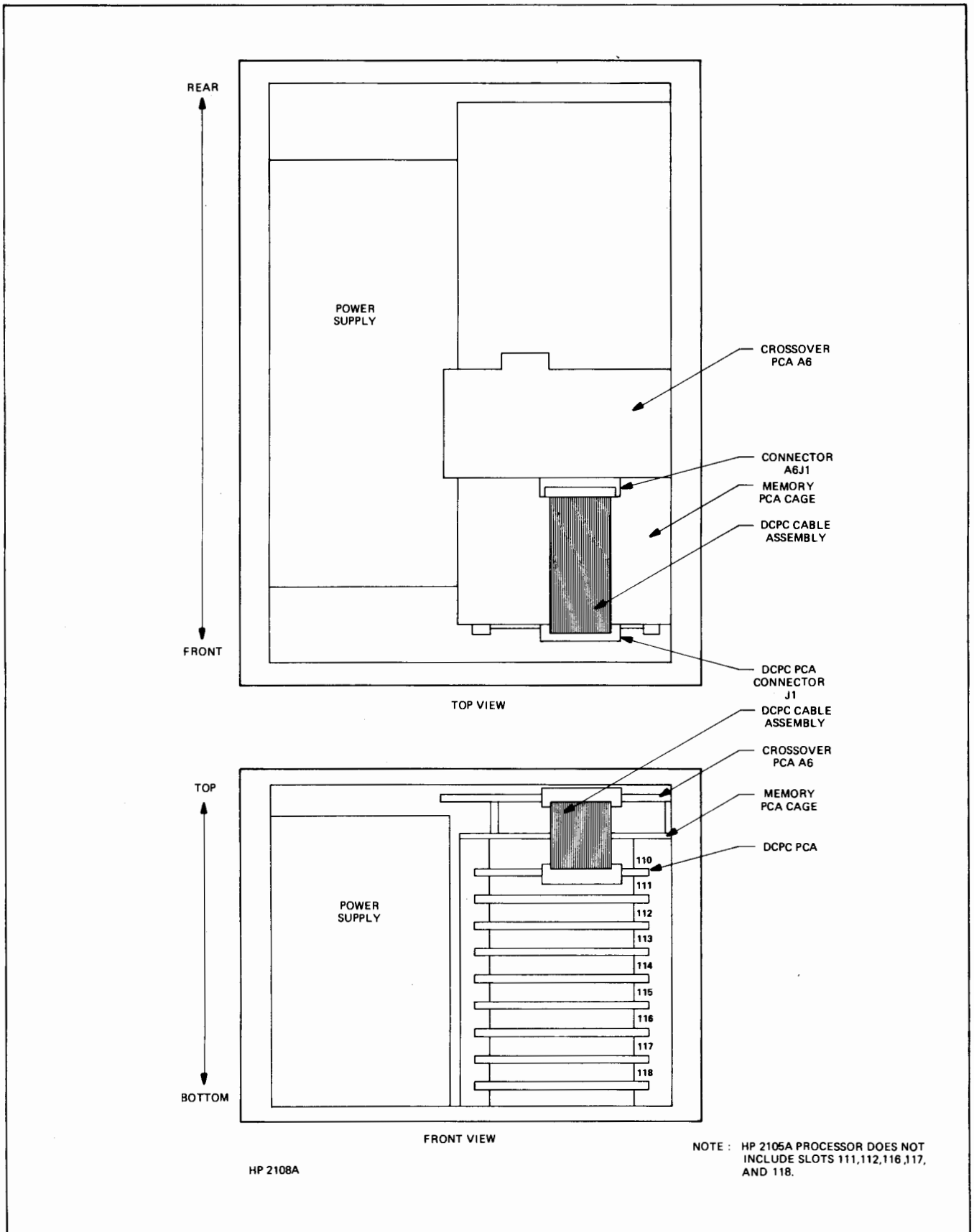
After installing the dual-channel port controller (DCPC), verify proper operation by performing the following:

- a. On rear panel set ~LINE and BATTERY switches to ON.
- b. On operator panel, rotate key-operated switch to R (reset) and then to OPERATE.
- c. Perform the Direct Memory Access/Dual-Channel Port Controller diagnostic test. The **Manual of Diagnostics** provides operating procedures for the diagnostic test. Part numbers for the diagnostic test are as follows:

DIAGNOSTIC	MANUAL	TAPE
Direct Memory Access/Dual-Channel Port Controller	02100-90217	24322-16001

If the diagnostic test is completed without an error halt, the DCPC is operating correctly. If the diagnostic test indicates an error halt, notify your nearest HP Sales and Service Office. (A list of the HP Sales and Service Offices is given in the **HP 21MX Computer Series Reference Manual**, part no. 02108-90002, and the **HP 21MX Computer Series Installation and Service Manual**, part no. 02108-90006.)





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Figure 1. Installation Details