INSTRUCTION MANUAL

™ KEPCO

### ENCLOSURES AND HARDWARE SYSTEMS

CA·7/CA·8
HOUSINGS

GENERAL DESCRIPTION (Refer to FIG. 1)

The Kepco Model CA—7 (two slot) and CA—8 (three slot) HOUSINGS are bench cabinets, designed to accommodate Kepco modular equipment of one-sixth rack width. Kepco modular power supplies equipped with front panels (series PCX—MAT, OPS—BTA and CC for example) can be directly installed without mounting accessories. Kepco modular power supplies without front panels (PBX, OPS for example) require the BPA—22 SLIDE ASSEMBLY and Kepco programming cards (SN-Series, MPG—4 for example) require the SNK—1 MOUNTING KIT for installation into the CA—7 or CA—8 Housing.

Both Kepco Housings consist of a steel chassis with premounted bottom slide-guides and a cover with handle and premounted top slide guides. At the rear of the CA—7 and CA—8 Housings are plug-in adapters, (removable) which provide the correct terminations for Kepco modular plug-in supplies. A line cord is provided and must be wired to one of the plug-in adapter barrier-strips. A-C inputs for the companion unit (s) can be wired in parallel at the rear barrier-strips.
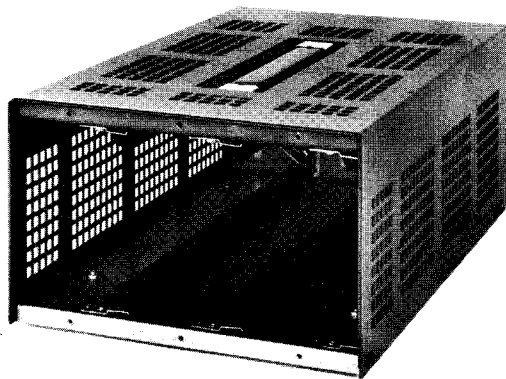
FRONT VIEW
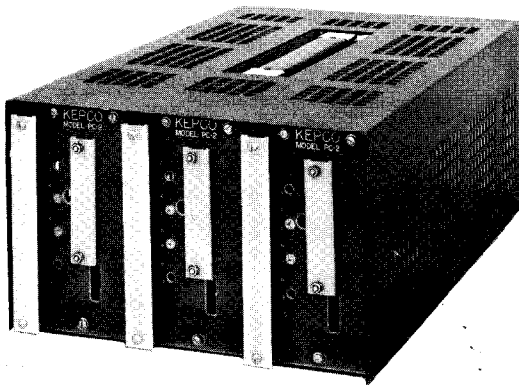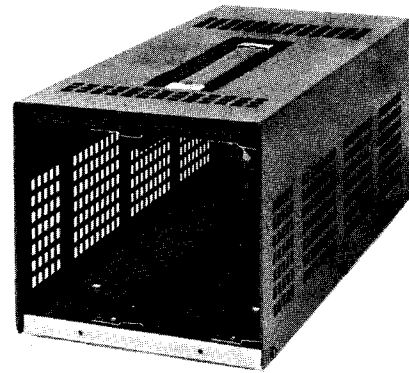
REAR VIEW
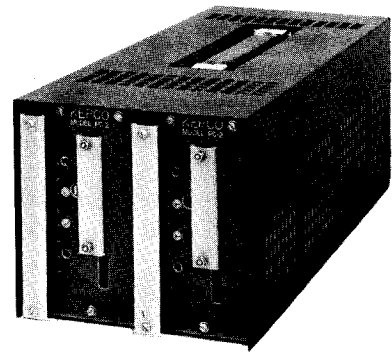
CA—8 HOUSING

CA—7 HOUSING

FIG. 1 CA—7 AND CA—8 HOUSINGS, FRONT AND REAR VIEW.

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INSTALLATION OF KEPCO MODULAR POWER SUPPLIES WITH FRONT PANELS

The Kepco CA–7 and CA–8 Housings are supplied ready for installation of Kepco modular power supplies with front panels (PCX–MAT, OPS–BTA or CC groups). Proceed as follows:

1) Slide modular power supply into the designated slot in the CA–7 or CA–8 Housing and secure front panel with the provided captive screws.

2) Once the modular power supply is plugged into its designated slot, its input/output connections are transferred to the associated plug-in adapter terminals at the rear of the CA–7 (CA–8) Housing.

NOTE: The plug-in adapter has a barrier-strip with terminals requiring jumper links: THESE LINKS MUST BE CONNECTED IN ACCORDANCE WITH THE INSTRUCTIONS FOR THE TYPE OF MODULAR POWER SUPPLY USED IN THE ASSOCIATED HOUSING SLOT. Table 1 shows the required jumper link positions for local control of the applicable Kepco modular power supply. The diagram (FIG. 2) shows the interconnections between the Kepco modular power supply and the rear plug-in adapter of the CA–7 (CA–8) Housing. See your Power Supply Instruction Manual for link connections for other control modes.

The two locating pins (part of each Kepco modular supply) should be installed at the rear of the plug-in module. The pins mate with predrilled holes on the rear PC–2 PLUG-IN ADAPTER and can be "keyed" six (6) different ways, thus preventing accidental intermixing of plug-in components.

3) If more than one Kepco modular power supply is installed in the CA–7 (CA–8) Housing, repeat the procedure given in (1) and (2). In addition, connect the a-c power input by interconnecting terminals (1)–(2)–(3) on all units to be installed, using AWG 18 tightly twisted wires, held as short as possible (see FIG. 2).

INSTALLATION OF KEPCO MODULAR POWER SUPPLIES WITHOUT FRONT PANELS

Kepco modular power supplies without front panel may be installed into the CA–7 and CA–8 Housings using the Kepco Model BPA–22 Panel Assembly. This assembly converts the power supply module into a "Plug-In Assembly," which can be installed as described in the previous paragraphs. A table of Kepco Modular Power Supplies, listing the correct rear jumper connections (to be made after installation into the CA–7 or CA–8 Housing) is presented below (see Table 1).

NOTE 1: Two locating pins (part of the BPA–22 PANEL ASSEMBLY) which mate with predrilled holes on the rear PC–2 PLUG-IN ADAPTER, can be installed at the rear of the completed plug-in module. The pins can be "keyed" six (6) different ways, thus preventing accidental intermixing of plug-in components.

NOTE 2: SEE YOUR POWER SUPPLY INSTRUCTION MANUAL FOR COMPLETE WIRING INFORMATION AND REAR TERMINAL CONNECTION DETAILS.

INSTALLATION OF KEPCO PROGRAMMING CARDS

Kepco Programming Cards (SN-Series, MPG–4 for example) may be installed into the CA–7 (CA–8) Housing using the Kepco SNK–1 Mounting Kit. The SNK–1 provides complete mounting facilities for all Kepco Programming cards, including front panel and rear terminations with mating plugs. After installing the Programming Card onto the SNK–1 Mounting Kit, the finished assembly (now a "plug-in" component) can be installed either into the CA–7 or the CA–8 Housing.

NOTE: SEE SNK–1 INSTRUCTION MANUAL FOR DETAILED INSTRUCTIONS FOR INSTALLATION OF KEPCO PROGRAMMING CARDS INTO THE SNK–1.

Proceed as follows:

1) Remove rear plug-in adapter from the CA–7 (CA–8) Housing, held by three (3) 4–40 x 1/2 inch machine screws. Replace with BACK PLATE (part of SNK–1 Mounting Kit). Use the three (3) 4–40 x 5/16 mounting screws, and 5/64 SPACERS which are part of the SNK–1 kit.

NOTE: DO NOT TIGHTEN MOUNTING SCREWS COMPLETELY.

2) Slide plug-in module (Programming Card installed onto SNK–1) into the designated housing slot. Secure front panel with the provided captive screws.

3) Insert the two KEPCO MODEL PC–4 MATING CONNECTORS (part of SNK–1 Mounting Kit) onto the printed circuit edge connectors, protruding through the BACK PLATE. Center the completed assembly carefully, making certain the MATING CONNECTORS are properly seated. *Now* tighten the three (3) mounting screws which hold the BACK PLATE to the CA–7 (CA–8) Housing.

NOTE: SEE YOUR SN OR MPG–4 INSTRUCTION MANUAL FOR MATING CONNECTOR WIRING INFORMATION.

TERMINATIONS ON THE CA—7 AND CA—8 HOUSINGS (See FIG. 2)

Each slot in the Kepco CA—7 and CA—8 Housings is terminated with a Model PC—2 plug-in adapter. The adapter is designed to provide the correct terminations for Kepco modular equipment, mounted into the Kepco CA—7 or CA—8 Housing. The Model PC—2 adapter consists of a printed circuit card which contains the mating connector for the modular unit and a barrier-strip with (11) terminals. Once the modular unit is plugged into the CA—7 or CA—8 Housing, input/output connections are transferred to the barrier-strip of the PC—2 adapter. NOTE: The barrier-strip is equipped with removable jumper links: THESE LINKS MUST BE INSTALLED IN ACCORDANCE WITH INSTRUCTIONS FOR THE MODULAR UNIT USED WITH THE ADAPTER.[1] The table below shows the required jumper connections for all applicable modular units. ON MODULAR UNITS EQUIPPED WITH MINIATURE BARRIER-STRIPS, THE JUMPER LINKS ON THESE MINIATURE BARRIER-STRIPS MUST BE COMPLETELY REMOVED BEFORE THE UNIT IS INSTALLED.

[1]Jumper links are contained in the small polyethylene bag, delivered with the CA—7 or CA—8 Housing.

TABLE 1

MODULAR UNIT KEPCO DESIGN GROUP	JUMPER LINKS ON PC—2:
PAX, PBX, PBX—MAT, PCX	(4)—(5), (6)—(7), (10)—(11)
OPS	(4)—(5), (6)—(7)
OPS—TA	DO NOT CONNECT ANY LINKS
OPS—B (GROUP I)	(6)—(7)—(8)
[1]OPS—BTA (GROUP II)	(7)—(8)
[1]CC—M	(8)—(9), (10)—(11)
[1]PCX—MAT	(4)—(5), (6)—(7), (8)—(9), (10)—(11)

[1]Equipped with front panels. All other units need Model BPA—22 PANEL ASSEMBLY.

FIG. 2 SCHEMATIC DIAGRAM, PC—2 ADAPTER.
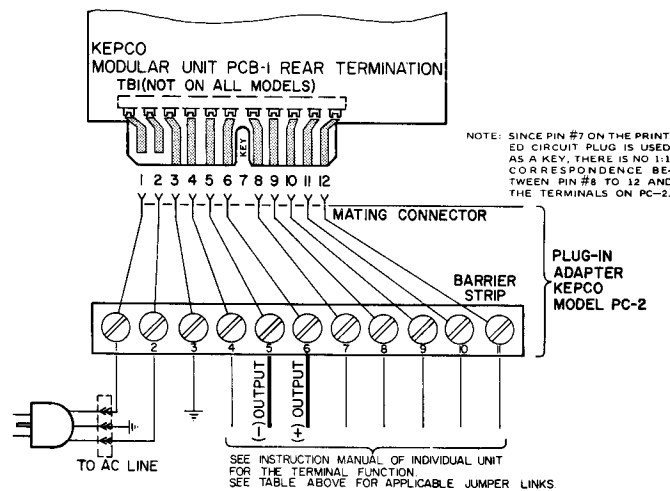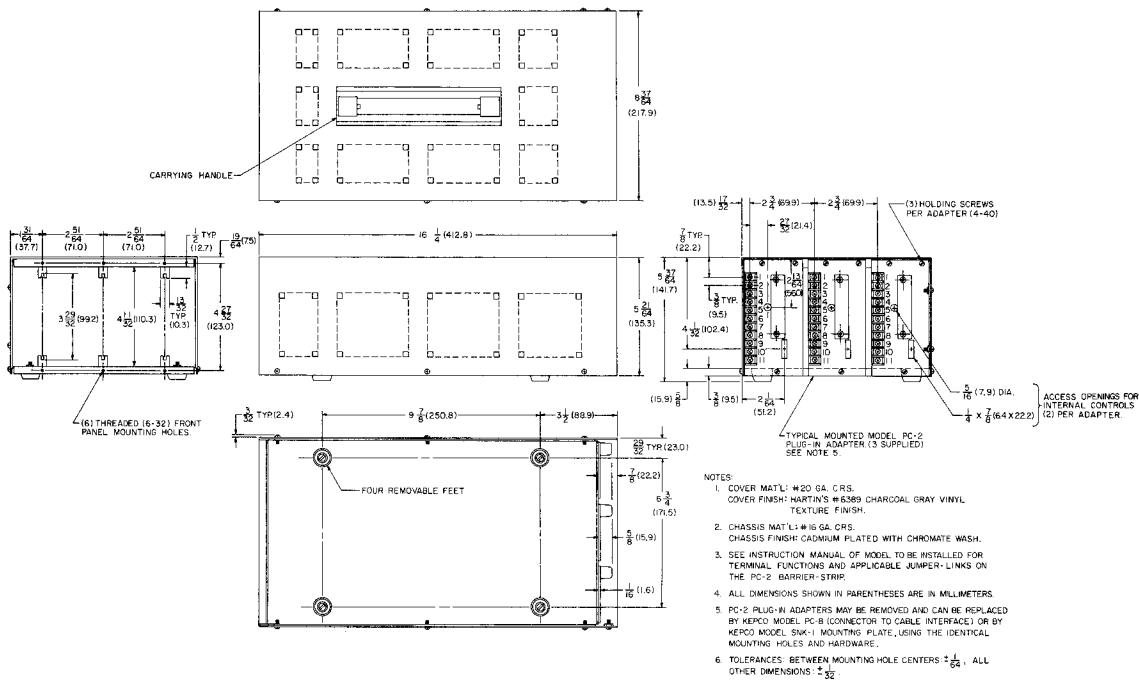
ALTERNATE TERMINATIONS ON THE CA—7 AND CA—8 HOUSINGS

The standard rear terminations on the CA—7 and CA—8 Housings can be replaced with a "mating plug-to-cable" interface, by ordering a KEPCO Model PC—8 Adapter and mounting it in place of the PC—2 Plug-In Adapter. Refer to the paragraph or "INSTALLATION OF KEPCO PROGRAMMING CARDS" (page 2) for detailed installation instructions.

OUTLINE
DRAWING
CA–8

CARRYING HANDLE

(6) THREADED (6-32) FRONT
PANEL MOUNTING HOLES.

FOUR REMOVABLE FEET

(3) HOLDING SCREWS
PER ADAPTER (4-40)

ACCESS OPENINGS FOR
INTERNAL CONTROLS
(2) PER ADAPTER

TYPICAL MOUNTED MODEL PC-2
PLUG-IN ADAPTER (3 SUPPLIED)
SEE NOTE 5.

NOTES:
1. COVER MAT'L: #20 GA. C.R.S.
   COVER FINISH: HARTIN'S #6389 CHARCOAL GRAY VINYL
   TEXTURE FINISH.

2. CHASSIS MAT'L: #16 GA. C.R.S.
   CHASSIS FINISH: CADMIUM PLATED WITH CHROMATE WASH.

3. SEE INSTRUCTION MANUAL OF MODEL TO BE INSTALLED FOR
   TERMINAL FUNCTIONS AND APPLICABLE JUMPER-LINKS ON
   THE PC-2 BARRIER-STRIP.

4. ALL DIMENSIONS SHOWN IN PARENTHESES ARE IN MILLIMETERS.

5. PC-2 PLUG-IN ADAPTERS MAY BE REMOVED AND CAN BE REPLACED
   BY KEPCO MODEL PC-8 (CONNECTOR TO CABLE INTERFACE) OR BY
   KEPCO MODEL SNK-I MOUNTING PLATE, USING THE IDENTICAL
   MOUNTING HOLES AND HARDWARE.

6. TOLERANCES: BETWEEN MOUNTING HOLE CENTERS: $\pm\frac{1}{64}$, ALL
   OTHER DIMENSIONS: $\pm\frac{1}{32}$.

OUTLINE
DRAWING
CA–7

CARRYING HANDLE

(4) THREADED (6-32)
FRONT PANEL
MOUNTING HOLES.

FOUR REMOVABLE FEET

(3) HOLDING SCREWS
PER ADAPTER (4-40)

ACCESS OPENINGS FOR
INTERNAL CONTROLS
(2) PER ADAPTER.

TYPICAL MOUNTED MODEL PC-2
PLUG-IN ADAPTER (2 SUPPLIED)
SEE NOTE 5.

NOTES:
1. COVER MAT'L: #20 GA. C.R.S.
   COVER FINISH: HARTIN'S #6389 CHARCOAL GRAY VINYL
   TEXTURE FINISH.

2. CHASSIS MAT'L: #16 GA. C.R.S.
   CHASSIS FINISH: CADMIUM PLATED WITH CHROMATE WASH.

3. SEE INSTRUCTION MANUAL OF MODEL TO BE INSTALLED FOR
   TERMINAL FUNCTIONS AND APPLICABLE JUMPER-LINKS ON THE PC-2 BARRIER STRIPS.

4. ALL DIMENSIONS SHOWN IN PARENTHESES ARE IN MILLIMETERS.

5. PC-2 PLUG-IN ADAPTERS MAY BE REMOVED AND CAN BE REPLACED BY KEPCO MODEL
   PC-8 (CONNECTOR TO CABLE INTERFACE) USING THE IDENTICAL MOUNTING HOLES
   AND HARDWARE, OR BY KEPCO MODEL SNK-I REAR MOUNTING PLATE.

6. TOLERANCES: BETWEEN MOUNTING HOLE CENTERS: $\pm\frac{1}{64}$, ALL OTHER DIMENSIONS: $\pm\frac{1}{32}$.