

INSTRUCTION MANUAL



™ **KEPCO**

**RA22-6&
RA22-6A**
RACK HOUSINGS

ENCLOSURES AND HARDWARE SYSTEMS

GENERAL DESCRIPTION (Refer to FIG. 1)

The KEPCO Model RA 22-6 and Model RA 22-6A Rack Housings accept up to six Kepco plug-in modules of one-sixth rack-width format and can be mounted into a standard (19") rack. The RA 22-6 and RA 22-6A are fully enclosed housings. Slide guides for each of the plug-in modules are provided for simple slip-in mounting. The modules are secured in the RA 22-6 and RA 22-6A Housings by means of their captive thumb-screws which fasten the front panel of each unit to the housing. While the Models RA 22-6 is supplied without rear terminations, the Model RA 22-6A is equipped with six (6) plug-in adapters. All source power, output and control connections to and from the plug-in modules are made at the six rear-mounted PC-2 plug-in adapters. Each PC-2 adapter accepts the edge-connector of the plug-in module and transfers the connector terminals to an eleven-terminal barrier-strip, accessible at the rear of the RA 22-6A. For the RA 22-6, plug-in adapters (PC-2 or PC-8) must be purchased separately, as required.

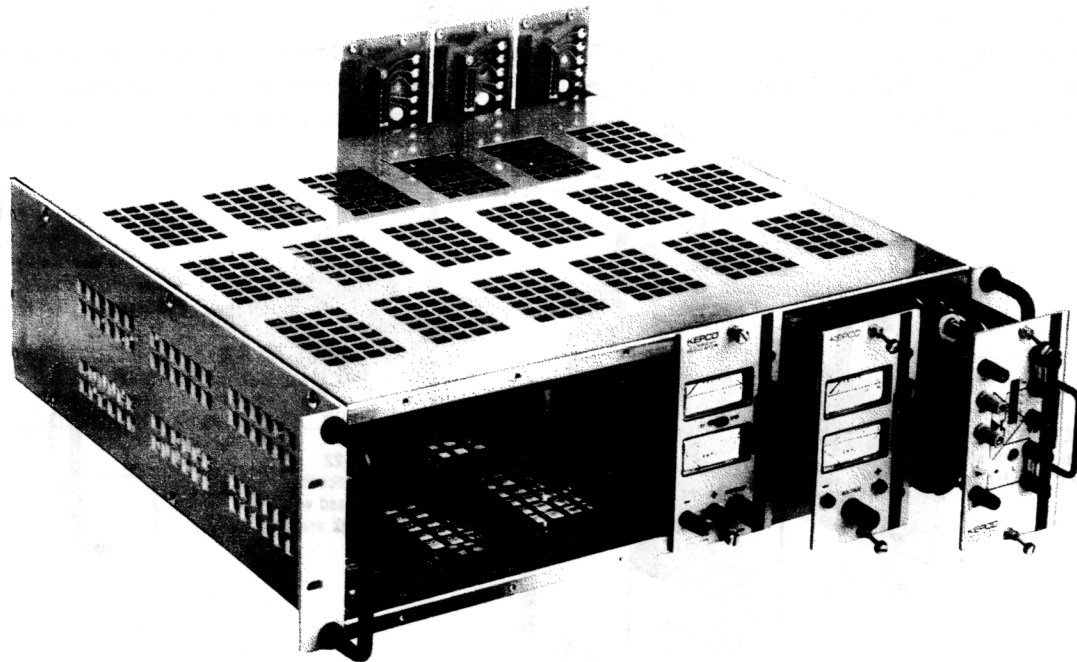


FIG. 1 KEPCO MODEL RA 22-6 RACK HOUSING, SHOWN WITH (3) MODEL PC-2 PLUG-IN ADAPTERS (OPTIONAL) AND (3) PLUG-IN MODULES.

NOTE: MODEL RA 22-6A COMES WITH (6) INSTALLED MODEL PC-2 PLUG-IN ADAPTERS.

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INSTALLATION OF RA 22-6 AND RA 22-6A (Refer to FIG. 3)

The KEPCO Model RA 22-6 or RA 22-6A RACK HOUSINGS may be permanently mounted into a standard 19-inch rack, or they may be placed on a rack-shelf or on the bench. The RA 22-6 and RA 22-6A front flanges are drilled for standard (2 1/4") rack mounting hole distance. The front handles and ferrules may be removed. The four bottom feet must be removed for rack mounting.

INSTALLATION OF KEPCO EQUIPMENT INTO RA 22-6 OR RA 22-6A RACK HOUSINGS

Six pairs of slide-guides are provided for easy slip-in installation of Kepco one-sixth rack-width modules. Care must be taken when sliding the modules into the terminating plug-in adapter (last inch of travel, at the rear of the RA 22-6 or RA 22-6A) to insure proper seating of connector and mating plug. If proper seating cannot be obtained initially, loosen the PC-2 adapter mounting screws at the rear (two on top, one at the bottom of each adapter), obtain proper seating of the plug-in module and refasten the mounting screws. Lock the plug-in module to the RA 22-6 or RA 22-6A Housing by fastening the two front panel thumb screws of each module.

AVAILABLE ACCESSORIES (NOT SUPPLIED, SEE FIG. 2)

- a) KEPCO Model PC-2 Plug-In-Adapter. **NOTE: NOT REQUIRED ON MODEL RA 22-6A.** This adapter provides the standard "edge connector to screw terminal" rear termination for the RA 22-6 Rack Adapter.
- b) KEPCO Model PC-8 Plug-In-Adapter. This adapter may be installed in place of the standard adapter (PC-2). It provides a direct edge-connector to cable interface for those applications where a quick-disconnection of the rear wiring is essential.
- c) KEPCO FILLER PANELS. These panels are mounted with two thumb screws to the RA 22-6 or RA 22-6A. They are used to cover unused spaces in both Rack Housings:
 - 1) KEPCO MODEL RFP 22-1 FILLER PANEL (ONE SPACE).
 - 2) KEPCO MODEL RFP 22-2 FILLER PANEL (TWO SPACES).
 - 3) KEPCO MODEL RFP 22-3 FILLER PANEL (THREE SPACES).
- d) KEPCO Model BPA-22 BLANK SLIDE ADAPTER. This adapter may be used for the conversion of standard, uncased Kepco models (series OPS, PAX and PCX for example) into plug-in modules which can subsequently be installed into the RA 22-6 or RA 22-6A. The BPA-22 may also be used to mount accessory equipment not designed by KEPCO.

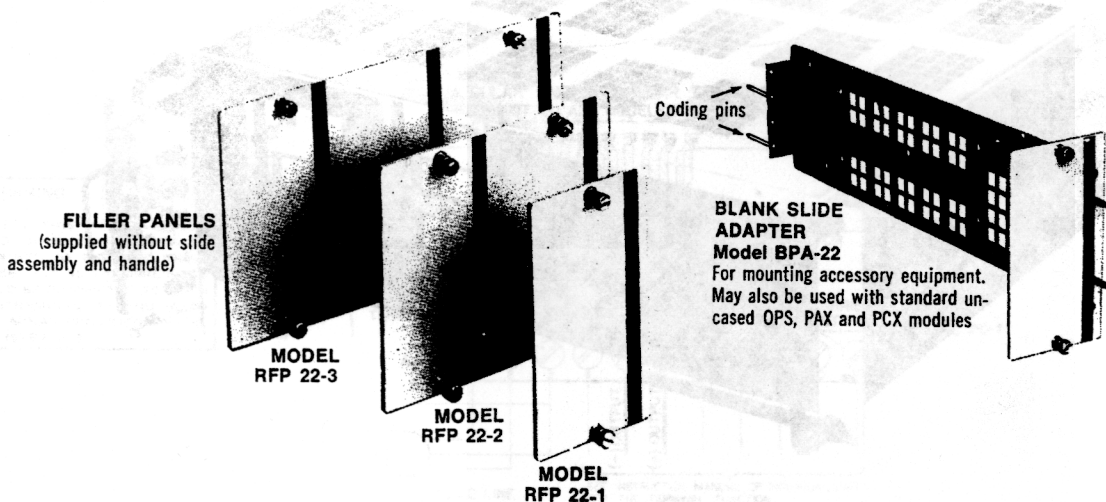


FIG. 2 ACCESSORIES (OPTIONAL) FOR MODELS RA 22-6 AND RA 22-6A RACK HOUSINGS.

NOTES:

1. MATERIAL: TOP AND BOTTOM PLATES 16 GA. C.R.S., SIDE BRACKETS 11 GA. C.R.S.
2. FINISH: TOP AND BOTTOM PLATES CADMIUM PLATED WITH A CHROMATE WASH. SIDE BRACKETS: LIGHT GRAY PER FED. STD. 595, COLOR # 26440.
3. REMOVE (4) FOUR FEET WHEN MOUNTING UNIT IN RACK.
4. SEE INSTRUCTION MANUAL OF MODEL TO BE INSTALLED FOR TERMINAL FUNCTIONS AND APPLICABLE JUMPER-LINKS ON THE PC-2 BARRIER-STRIP.
5. PC-2 PLUG-IN ADAPTERS MAY BE REMOVED AND CAN BE REPLACED BY KEPKO MODEL PC-8 (CONNECTOR TO CABLE INTERFACE) OR BY KEPKO MODEL SNK-1 MOUNTING PLATE, USING THE IDENTICAL MOUNTING HOLES AND HARDWARE.
6. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.
7. TOLERANCES: A) BETWEEN MOUNTING HOLES $\pm 1/64$ (± 0.4).
 B) ALL FRONT PANEL DIMS. TO MIL. STD. 189.
 C) ALL OTHER DIMS. $\pm 1/32$ (± 0.8), EXCEPT AS NOTED.

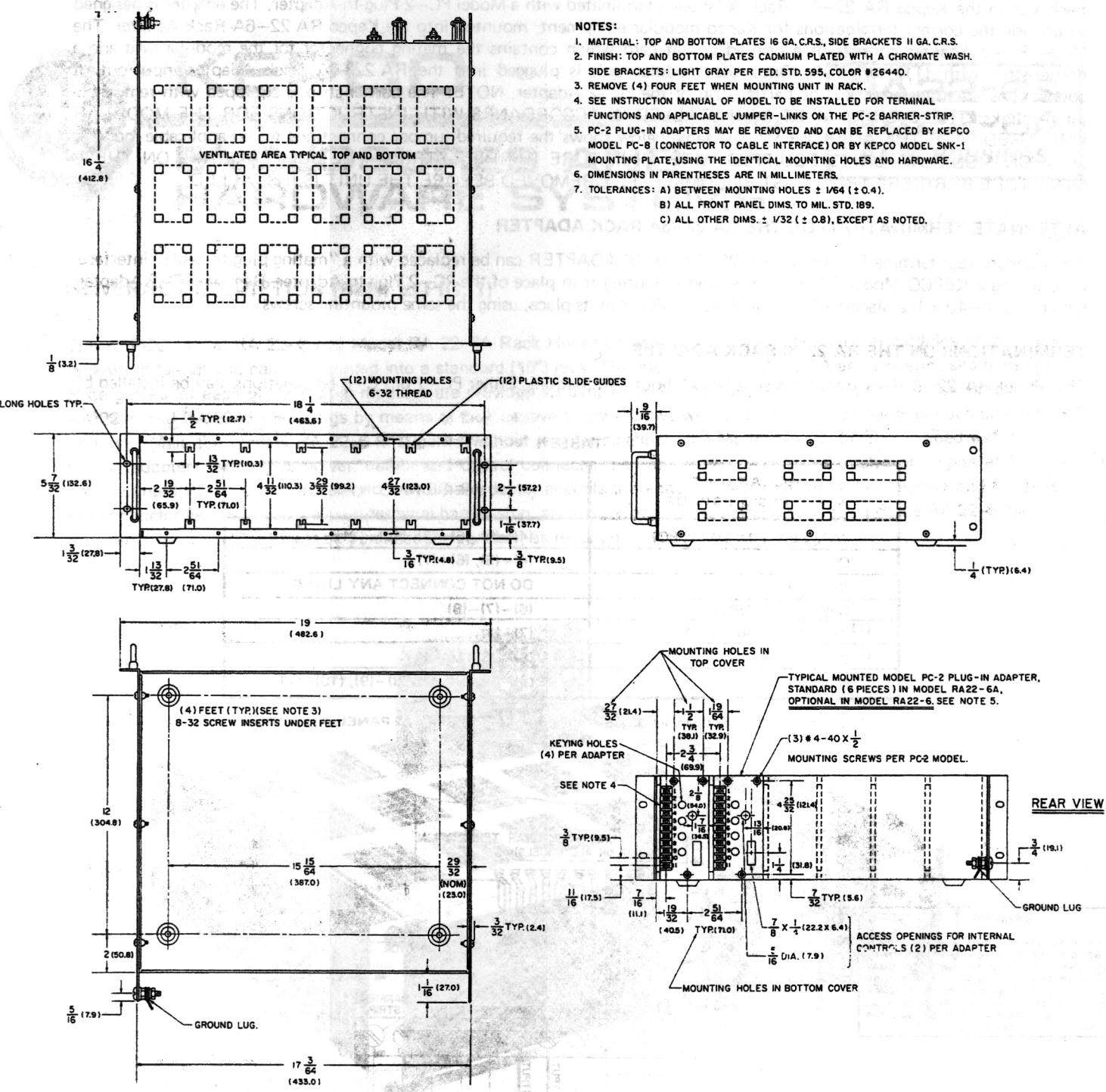


FIG. 3 MECHANICAL OUTLINE DRAWING, KEPKO MODELS RA 22-6 AND RA 22-6A RACK HOUSINGS.

TERMINATIONS ON THE RA 22-6A RACK ADAPTER (See FIG. 4)

Each slot in the Kepco RA 22-6A Rack Adapter 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 RA 22-6A Rack Adapter. 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 RA 22-6A Rack Adapter 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.

ALTERNATE TERMINATIONS ON THE RA 22-6A RACK ADAPTER

The standard rear terminations on the RA 22-6A RACK ADAPTER 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. Remove PC-2 Adapter, held by (3) 4-40 x 1/2 Machine Screws and mount PC-8 in its place, using the same mounting screws.

TERMINATIONS ON THE RA 22-6 RACK ADAPTER

The Model RA 22-6 Rack Adapter is supplied without terminations. Either PC-2 or PC-8 terminations may be installed by the user.

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.

WARNING
FOR PERSONAL SAFETY THIS RACK ADAPTOR MUST BE GROUNDED. WHEN THE A.C. POWER CONNECTIONS ARE WIRED TO THE INDIVIDUAL PLUG-IN ADAPTORS (SEE FIG. 4), THE LINE CORD GROUND WIRE SHOULD BE CONNECTED TO EACH PLUG-IN ADAPTOR (TERMINAL 3) AND ALSO TO THE GROUND TERMINAL PROVIDED ON THE RACK ADAPTOR CASE (SEE FIG. 3).

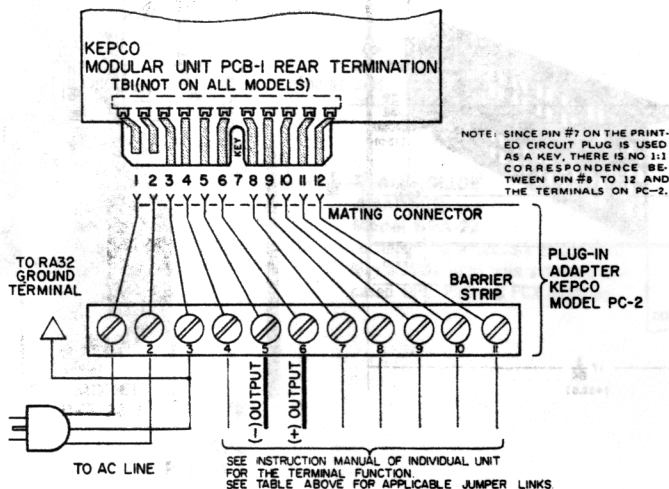


FIG. 4 SCHEMATIC DIAGRAM, PC-2 ADAPTER.