

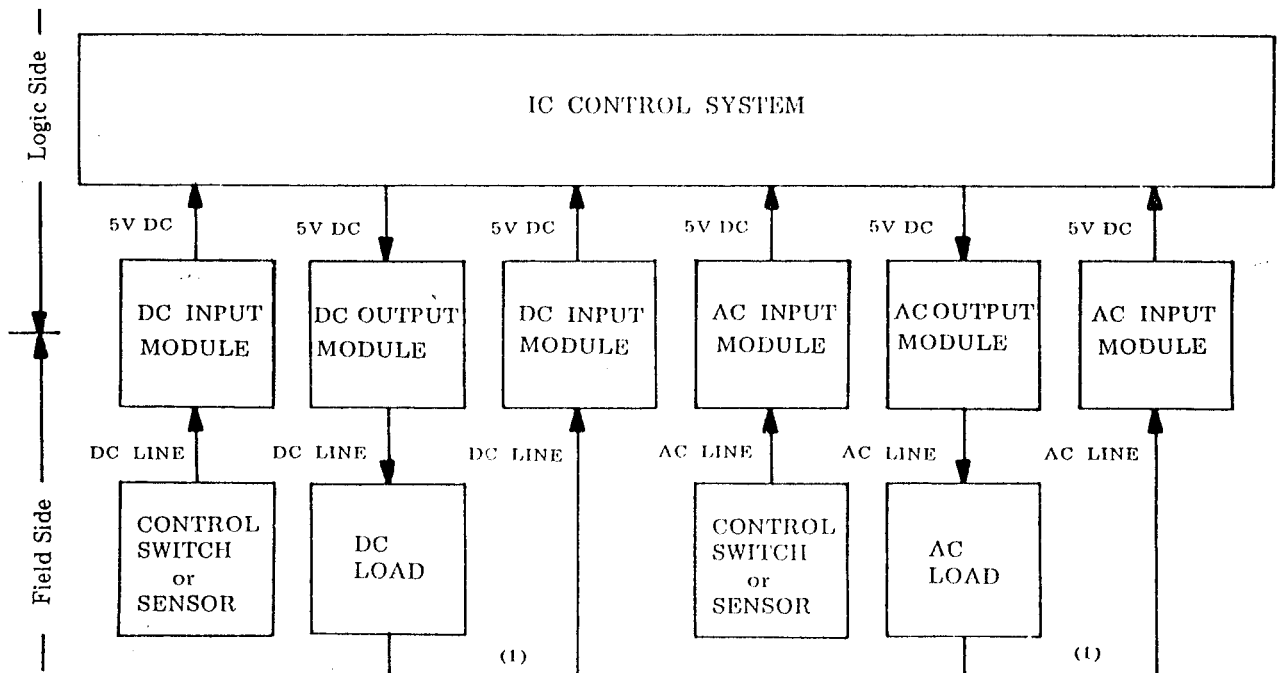
PCLD-7216

SSR I/O Module Carrier Board

USER'S MANUAL

I. GENERAL DESCRIPTION

The PCLD-7216 is an SSR I/O module carrier board. It can carry any combination of up to 16 SSR I/O modules (see Figure 1). Each channel is equipped with two screw terminals for field connections. These connections satisfy all SSR I/O module field-side conditions. Figure 2 illustrates the PCLD-7216's schematic diagram.



(1) This feedback signal is a tracking monitor. The input of the INPUT MODULE in Parallel with the load.

Figure 1. Simplified Application Diagram

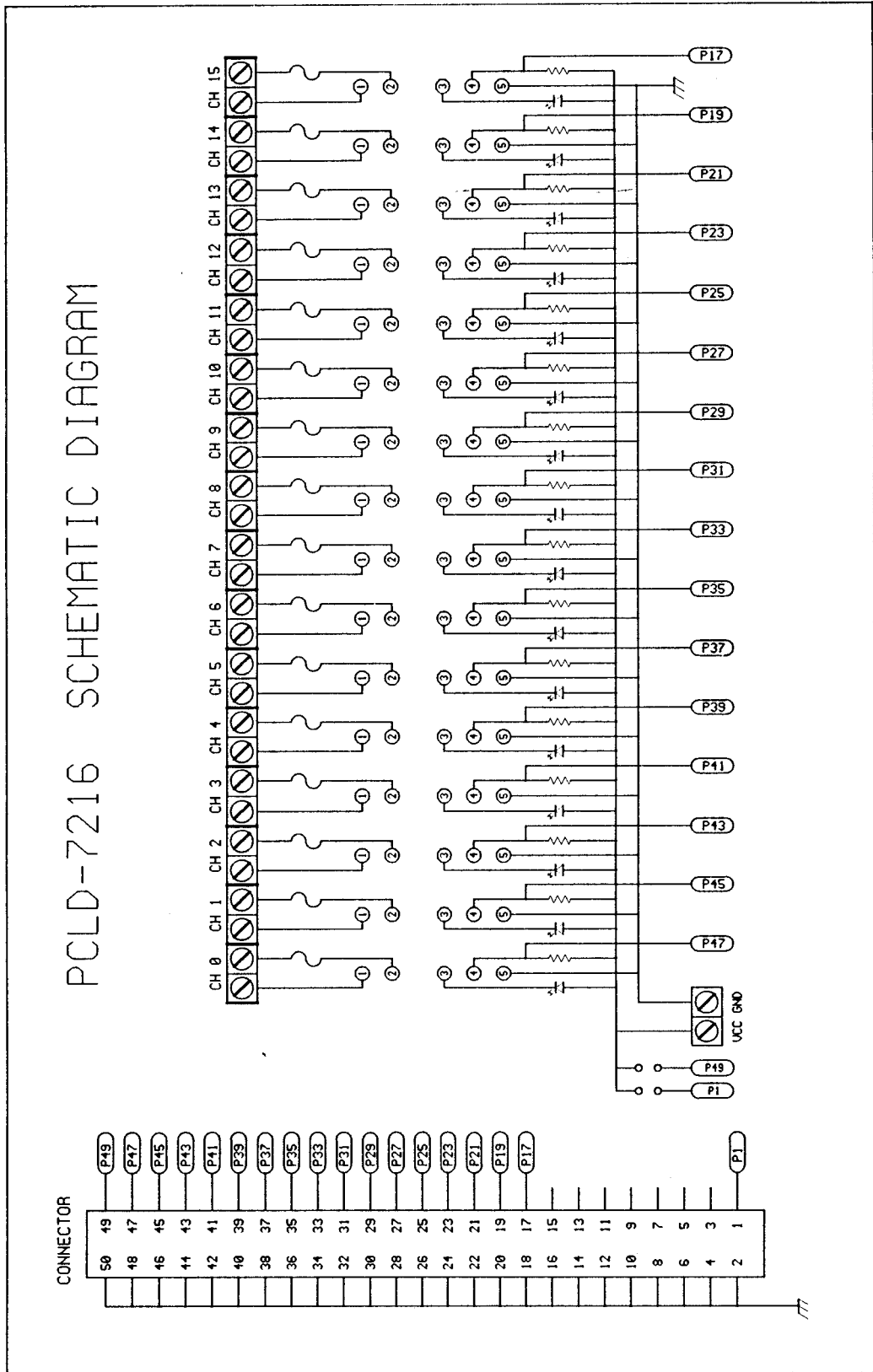
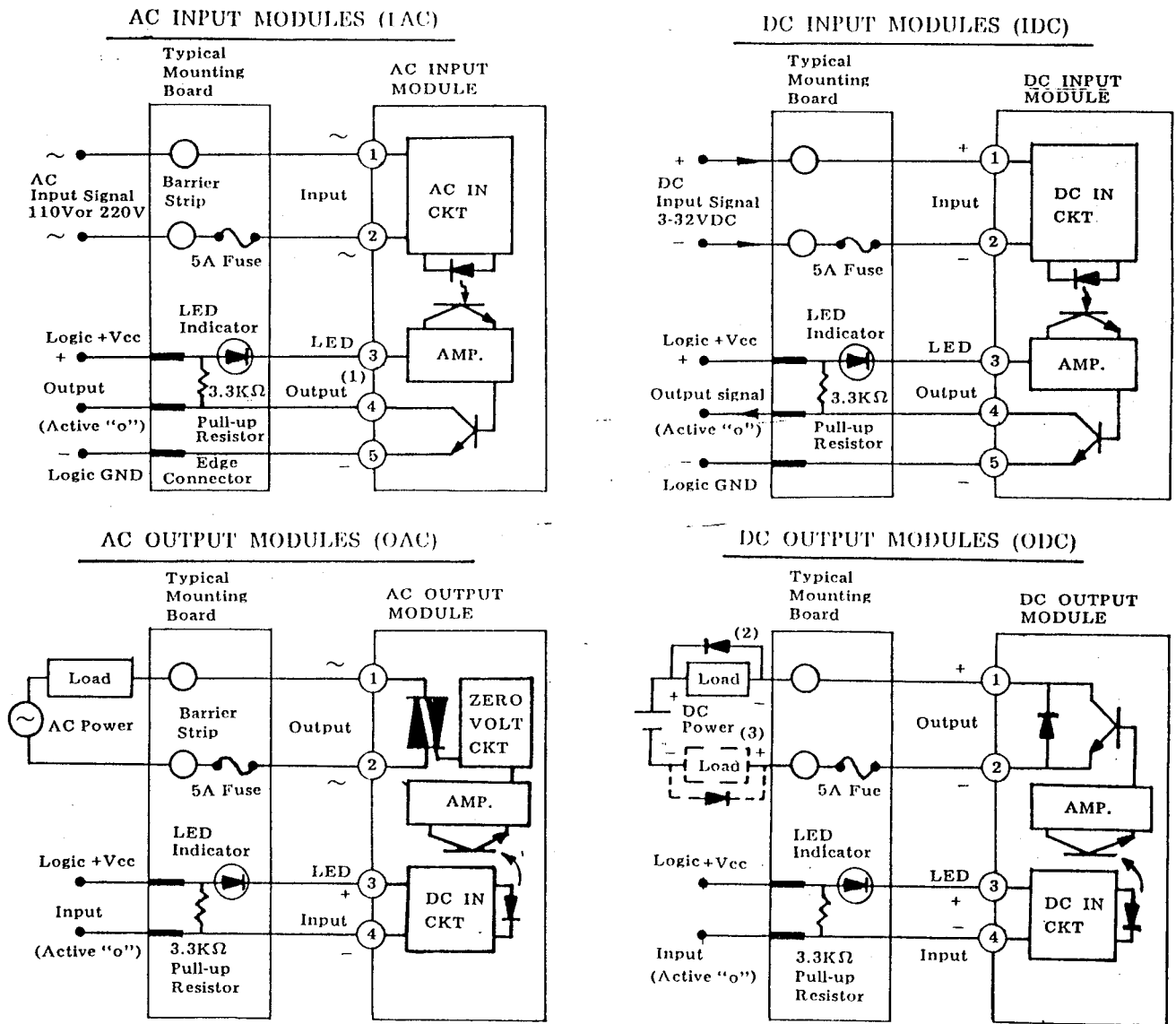


Figure 2. The Circuitry Diagram of The PCLD-7216

There are several types of SSR I/O Modules:

- 1) AC input modules
- 2) DC input modules
- 3) AC output modules
- 4) DC output modules

Figure 3 illustrates the circuit and operating diagrams for these SSR I/O modules.

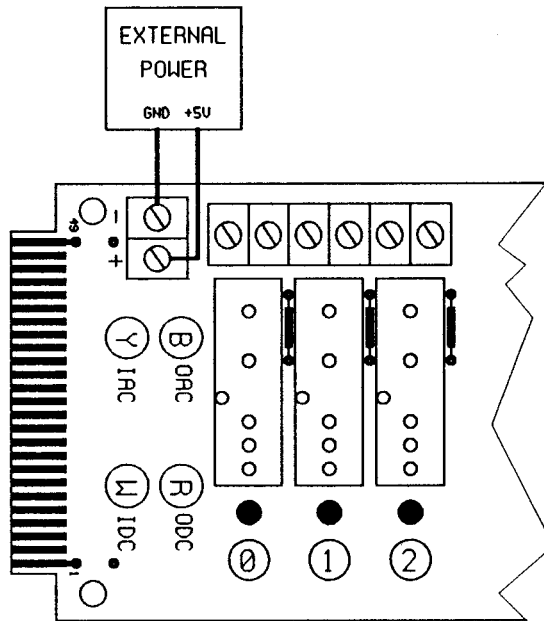


- (1) The pin-4 of the INPUT MODULE is a open collector output.
- (2) Inductive DC load must be diode (or Varistor) suppressed. Otherwise the DC OUTPUT MODULE may be turn-off falsely.
- (3) Load can be placed in either side of the line.

Figure 3. Equivalent Circuitry and Wiring Diagrams of All SSR I/O Modules

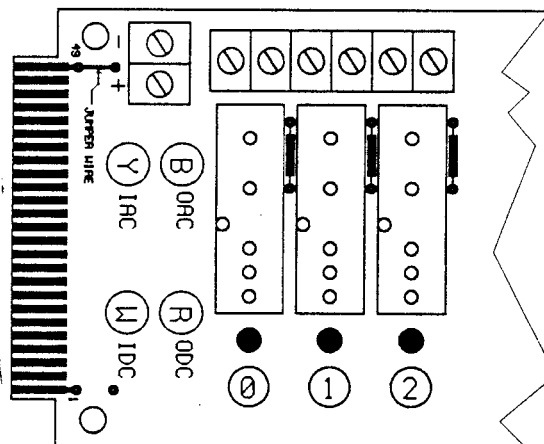
II. POWER CONSIDERATIONS

All SSR I/O modules need a +5V power source. You can connect an external power supply to the PCLD-7216's power entry terminal block which are marked with '+' and '-', as shown below:



*Factory default

Or you can short pin 49 to the terminal block marked with '+' to use the PC's +5V power, shown as below:



III. MODULE INSTALLATION

The PCLD-7216 SSR Module Carrier Board has been designed to carry the following types of SSR I/O modules:

- | | | | |
|----|------------|----|-----------|
| 1. | PCLM-OAC5A | 2. | PCLM-ODC5 |
| 3. | PCLM-IAC5A | 4. | PCLM-IAC5 |
| 5. | PCLM-IDC5D | | |

These modules can be installed in any one of 16 locations on board the PCLD-7216. Operating ambient temperatures should be between -20°C and $+80^{\circ}\text{C}$ for optimum performance. If the equipment is to be used in a harsh or unfavorable environment, it may be necessary to install it inside a protective enclosure. It is also recommended that the PCLD-7216 be mounted and wired before the modules are installed.

IV. RACK MOUNT ASSEMBLY

The PCLD-7216 has five standoffs (one at each corner, and one at the center), and is supplied with five 3 mm screws for rack mounting purposes. Figure 5 shows a diagram of the PCLD-7216's mounting dimensions.

The PCLD-RMK-03 is a general purpose rack mount kit used for mounting the PCLD Series daughter boards in a 19" rack. Figure 6 shows the PCLD-RMK-03's dimensions, and Figure 7 illustrates a rack mount assembly.

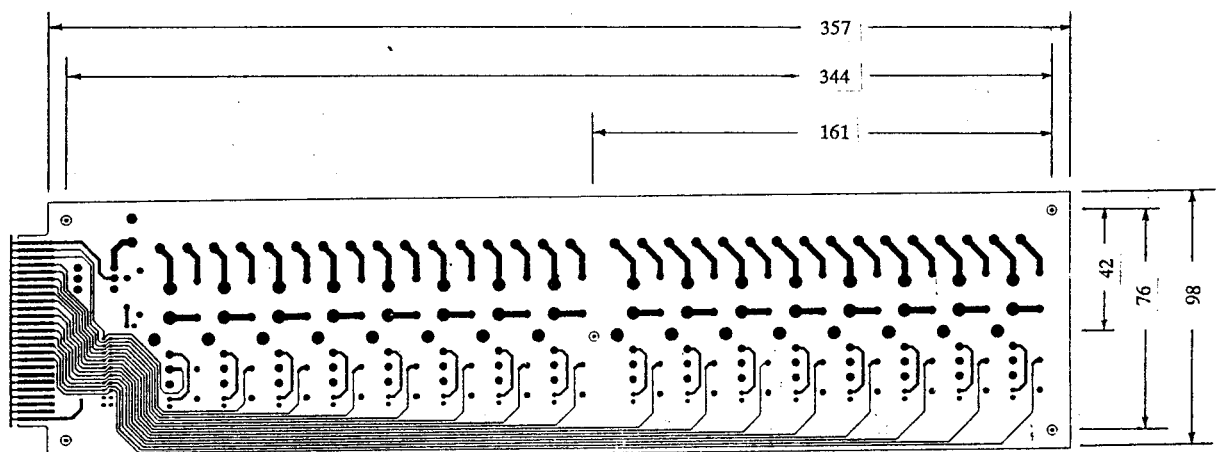


Figure 5. Dimension of PCLD-7216

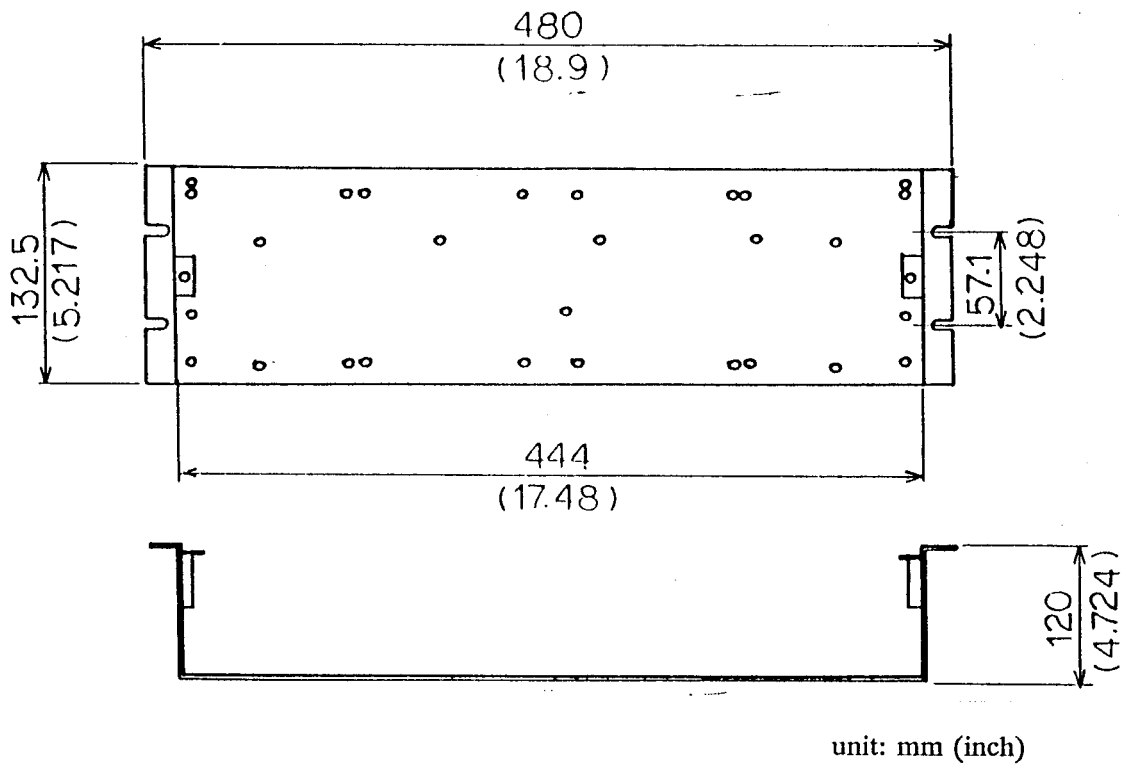


Figure 6. PCLD-RMK-03 Rack Mount Kit Dimensions

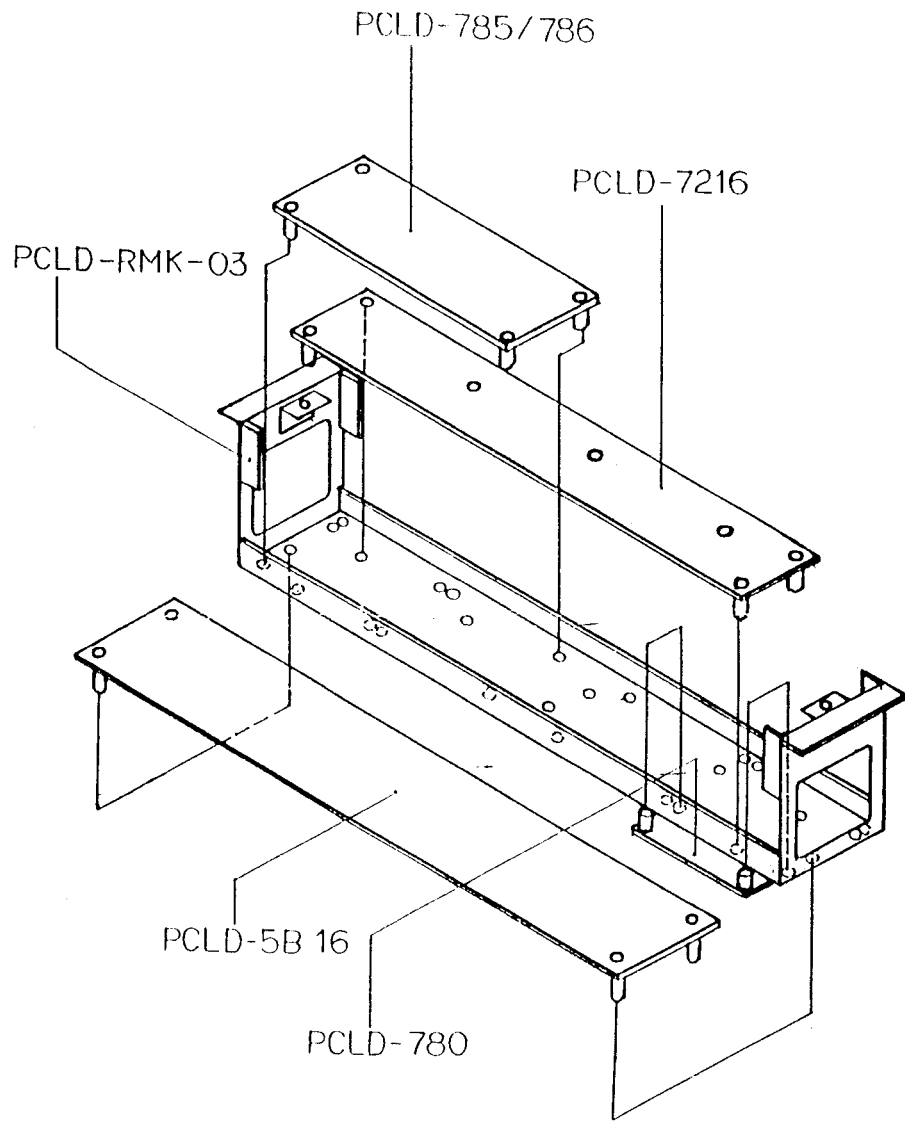


Figure 7. Rack Mount Assembly Example