

The Model 4200-CRT-RM is a Rack Mount Kit for cabinet mounting of a 17" CRT monitor. The kit includes a glass front panel with a control access door.

Refer to Table 1 for a list of parts included in the kit:

*Table 1*  
**Model 4200-CRT-RM parts list**

Item	Quantity	Description	Keithley Part No.
A	1	Rack Mount Frame	MK-35A
B	8	Cage Nut, M6 Threads	FA-295
C	8	M6 × 15 mm Phil. Flat Screw	FA-296
D	1	Front Panel	MK-35A
E	4	Support Bars	MK-35A
F	2	Handles	MK-35A
G	8	Support Bar Clamps	MK-35A
H	8	Washers	MK-35A

**CAUTION** The 17" CRT monitor weighs 42 pounds. One person alone should not attempt the cabinet preparation and system installation. Obtain assistance. Failure to comply could result in personal injury and/or equipment damage.

## Cabinet preparation

1. Note the location at the top of the cabinet where the rack mount kit will be installed.
2. Mark the location in the cabinet.

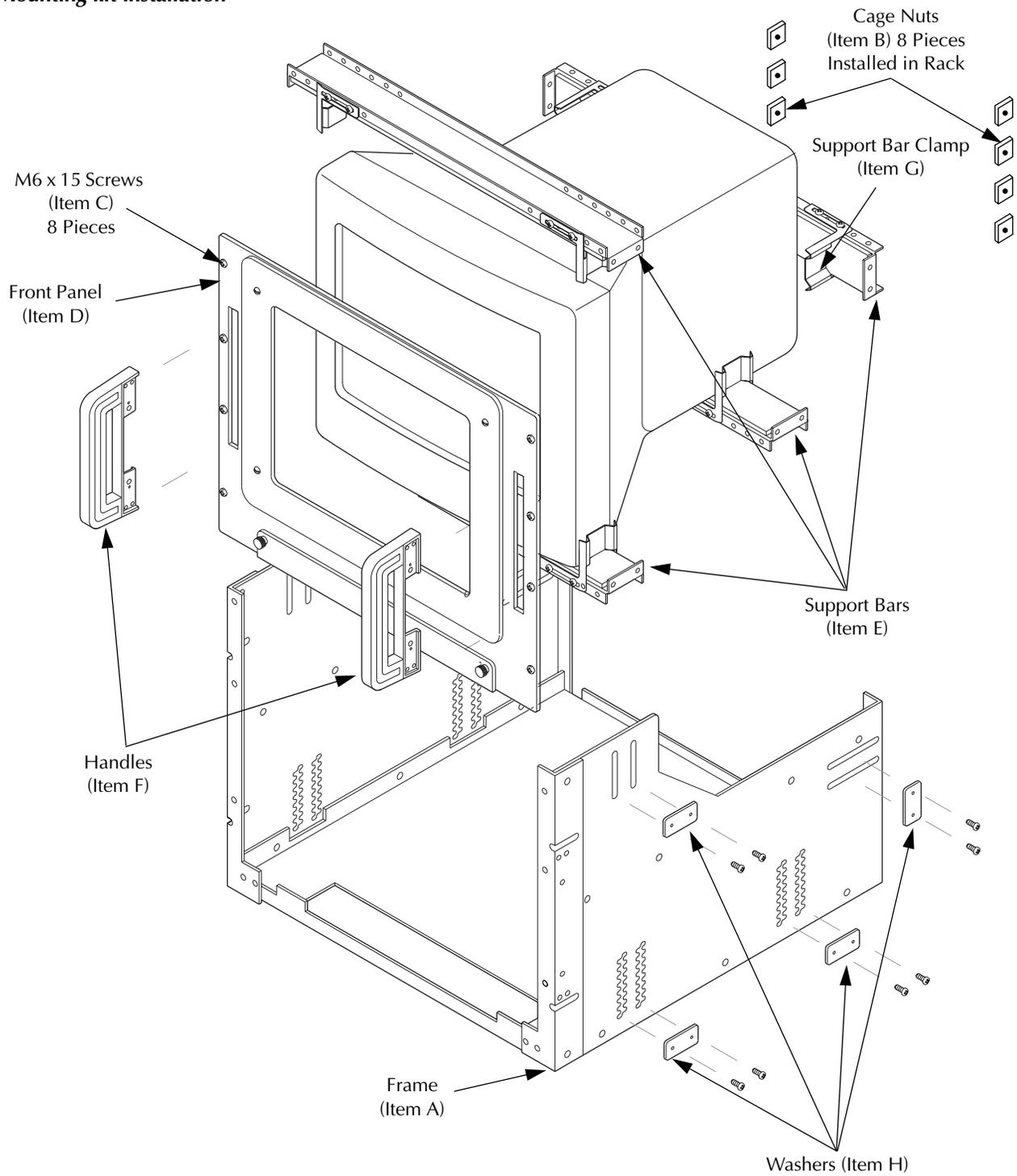
## System installation

Refer to Figure 1.

1. Assemble the two sides of the rack mount frame to the base with the screws supplied.
2. Assemble the front panel to the sides and base using the screws supplied.
3. Insert the left and right handles through the front of the rack kit and secure to the sides of the rack kit with supplied screws.
4. Install the cage nuts into the four marked locations on the cabinet.
5. Install the assembled rack mount frame into the cabinet and secure with the four M6 screws supplied.
6. At the rear of the cabinet, slide the monitor into the rack mount frame as far to the front as it will go.
7. Using one of the supplied support bars with clamps installed, place it under the front of the monitor and lift the monitor screen to position it as parallel to the glass front of the rack mount frame as possible. Adjust the support bar clamps as required to hold the monitor, then tighten in place. Secure the bar using the supplied screws and washers. Use another support bar with clamps to raise and secure the rear of the monitor.
8. The top and rear support bars can now be installed to completely secure the monitor.

**WARNING** The Model 4200-SCS must be separately connected to a safety earth ground to maintain protection against possible shock hazard. Failure to connect the unit to a safety earth ground may result in personal injury or death due to an electric shock.

Figure 1  
Mounting kit installation



## Safety precautions

This product is intended for use by qualified personnel who recognize shock hazards and are familiar with the safety precautions required to avoid possible injury. Read the operating information carefully before using the product.

## General definitions

The types of product users are:

**Responsible body** is the individual or group responsible for the use and maintenance of equipment, and for ensuring that operators are adequately trained.

**Operators** use the product for its intended function. They must be trained in electrical safety procedures and proper use of the instrument. They must be protected from electric shock and from contact with hazardous live circuits.

**Maintenance personnel** perform routine procedures on the product to keep it operating; for example, setting the line voltage or replacing consumable materials. Maintenance procedures are described in the manual. The procedures explicitly state whether the operator may perform them. Otherwise, procedures should be performed only by service personnel.

**Service personnel** are trained to work on live circuits, and perform safe installations and repairs of products. Only properly trained service personnel may perform installation and service procedures.



This symbol on an instrument indicates that the user should refer to the operating instructions located in the manual.



This symbol on an instrument shows that it can source or measure 1000 volts or more, including the combined effect of normal and common mode voltages. Use standard safety precautions to avoid personal contact with these voltages.

The **WARNING** heading explains dangers that might result in personal injury or death. Always read the associated information very carefully before performing the indicated procedure.

The **CAUTION** heading explains hazards that could damage the instrument. Such damage may invalidate the warranty.

## Operation

Exercise extreme caution when a shock hazard may be present. Lethal voltage may be present on cable connector jacks or test fixtures. The American National Standards Institute (ANSI) states that a shock hazard exists when voltage levels greater than 30V RMS, 42.4V peak, or 60VDC are present. **A good safety practice is to expect that hazardous voltage is present in any unknown circuit before measuring.**

For maximum safety, do not touch the product, test cables, or any other instruments while power is applied to the circuit under test. **ALWAYS** remove power from the entire test system and discharge any capacitors before: connecting or disconnecting cables or jumpers, installing or removing switching cards, or making internal changes, such as installing or removing jumpers.

Do not touch any object that could provide a current path to either the common side of the circuit under test or to the power line (earth) ground. Always make measurements with dry hands while standing on a dry, insulated surface capable of withstanding the voltage being measured.

Do not exceed the maximum signal levels of the instruments and accessories, as defined in the specifications and operating information, and as shown on the instrument or test fixture panels, or switching card.

Chassis connections must only be used as shield connections for measuring circuits, NOT as safety earth ground connections.

If using a test fixture, keep the lid closed while power is applied to the device under test. Safe operation requires the use of a lid interlock.

Instrumentation and accessories shall not be connected to humans.

## **Maintenance and service**

Inspect the connecting cables, test leads, and jumpers for possible wear, cracks, or breaks before each use. Before performing any maintenance, disconnect the line cord and all test cables.

## **Cleaning**

Keep the connections free of contaminants (such as dirt, oil, etc.) in order to maintain maximum insulation resistance. If the connections become contaminated, clean them thoroughly with methanol and allow them to dry completely before use.