SUPPORT NOTE

SN-128

Mounting Requirements for RI-EG Systems

Introduction

In the RI-EG DC Parametric Analyzer, an instrument card cage and other Reedholm elements are mounted inside the left bay of an EG2001X or EG2010X prober. In most cases, Reedholm configures the systems to work properly, but some remote locations make it impractical for the prober to be sent to Reedholm. This support note describes how the prober needs to be prepared for a successful installation.

EG Compatible Elements

Items in the left bay need to be removed or relocated to the right bay. Prober firmware level must be CD at the minimum, and Reedholm needs to be notified as to the version. Several hardware items are needed as well:

1) Front and rear mounting bars with the functionality described on the next page must be installed. This might require drilling and tapping holes in the table frame.
2) An 8.75” high fill panel nominally 0.070" thick with suitable mounting must be provided.

Front Mounting Bars

Reedholm has used two types. Figure 5 on the next page shows the U-bracket type. It permits use of clip nuts for attaching front panels. However, there is no problem using a solid bar as long as the holes are properly tapped and in the correct locations for the panel mounting screws.

Figure 1 shows U-brackets along with the card cage. The volume above the cage is sometimes empty for starting system configurations, but is reserved for third party instruments and brackets. The U-brackets are attached and properly located vertically using the three elongated holes shown in figure 5.

The first mounting hole is positioned between 0.365" and 0.385" from the top of the bottom frame.

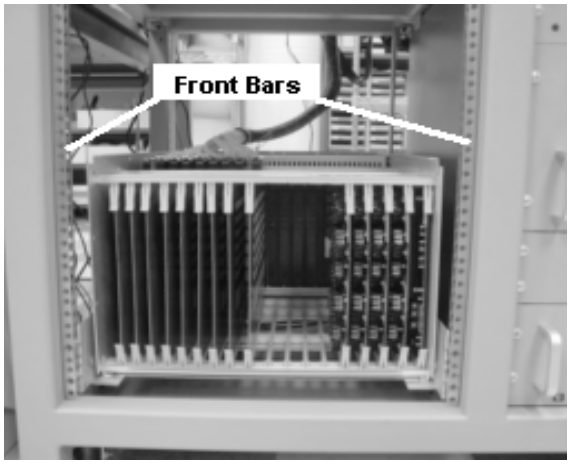

Figure 1 - Front Mounting Bars

Rear Mounting Bars

Only one type of rear mounting bar has been successfully use. Each bar is mounted to the frame using two right angle brackets. The brackets permit vertical and horizontal adjustment as shown in figures 2 and 3.

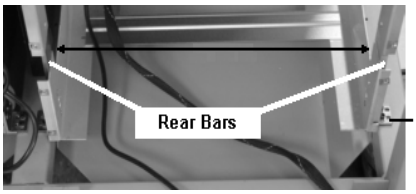

Figure 2 - Rear Mounting Bars

Figure 3 - Right Rear Mounting Bar

Front Panels

A blank, 8.75" fill panel supplied by the customer is required to complete the enclosure as shown at the right. It fills the space between the instrument cooling panel and the instrument power control.

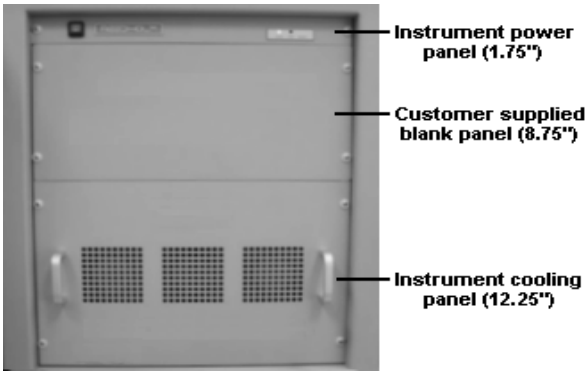

Figure 4 – Front Panels

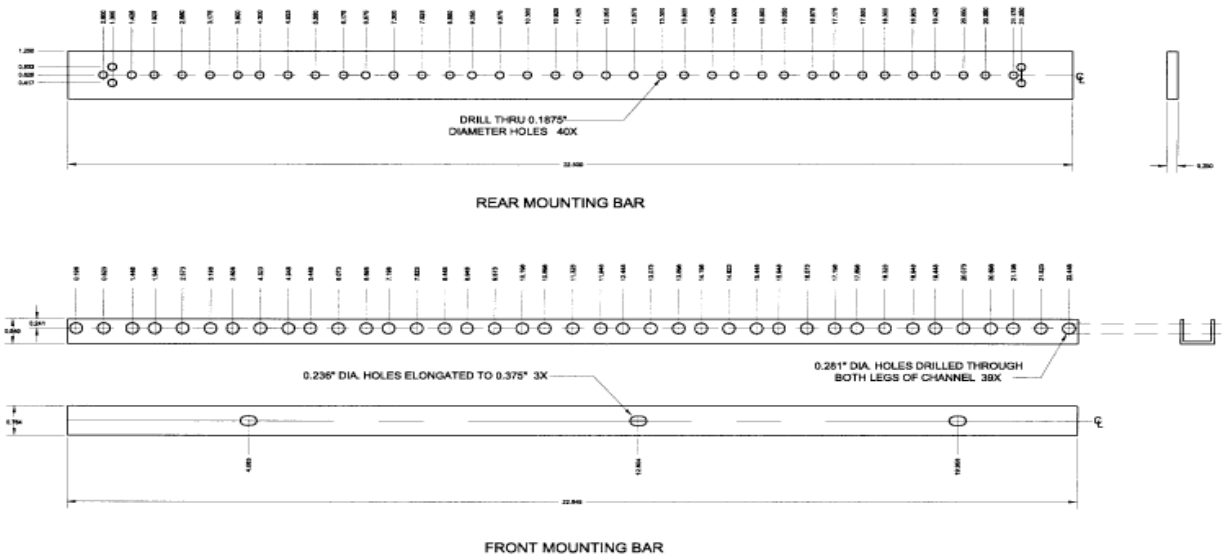

Figure 5– Dimensions and Hole Patterns for Front and Rear Brackets