

Introduction

WARNING The procedures contained in this packing list are intended for use by qualified service personnel only. Do not perform these procedures unless qualified to do so. Failure to recognize and observe normal safety precautions could result in personal injury or death.

This document provides installation instructions for the Keithley PreAmp Base Models 4200-MAG-BASE and 4200-VAC-BASE. Read through this document and make sure all components required to complete the installation are available before proceeding.

NOTE *The Model 4200 comes with a toolkit containing all tools required to properly install the PreAmp bases as described in this document—no special tools are required.*

The Model 4200-MAG-BASE and 4200-VAC-BASE are intended to provide a secure mounting surface for locating a Model 4200-PA PreAmp on a probe station platen. By mounting the Model 4200-PA PreAmp on the platen, the best possible low current performance is achieved.

Installation

Use the following procedure for installing each PreAmp onto the PreAmp base.

WARNING Turn off power from all connected instrumentation and disconnect their line cords. Make sure all power is removed and stored energy in external circuitry is discharged. Failure to remove all power from the instrumentation could result in personal injury or death.

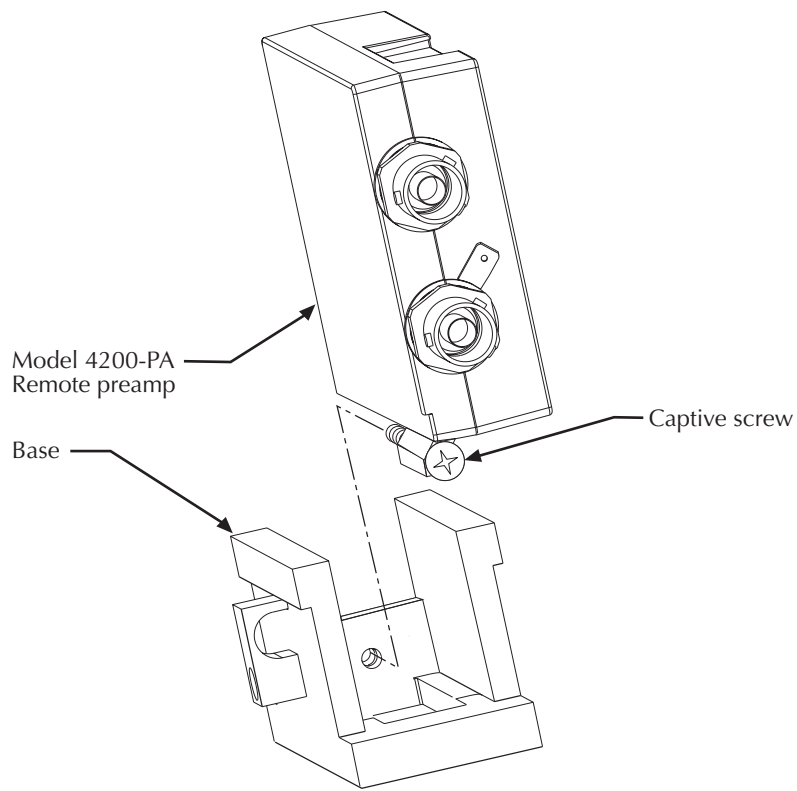
Step 1

Install the Remote PreAmp (Model 4200-PA) into the base securing with the PreAmp's captive screw (Figure 1).

Step 2

Place PreAmp and base assembly on the probe station platen.

Figure 1
PreAmp and base assembly

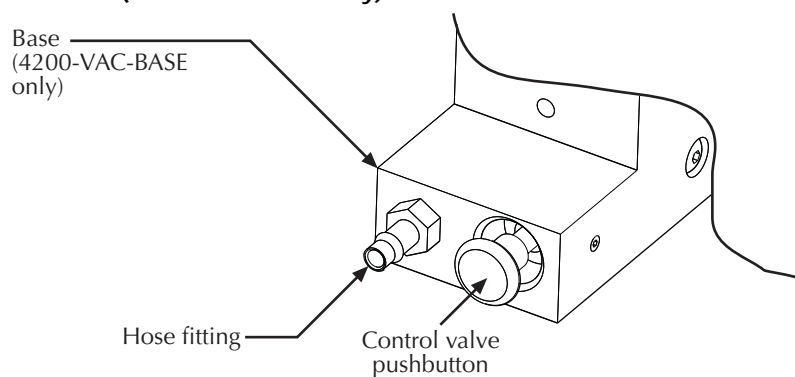


Step 3

For the 4200-VAC-BASE only, route vacuum hose to the hose fitting on the base (Figure 2). Apply a vacuum to the base. If the base does not securely hold position, reposition the base on a clean flat surface.

NOTE To remove the vacuum base, press the Control valve pushbutton (Figure 2).

Figure 2
Vacuum connection (4200-VAC-BASE only)



Step 4

Connect the manipulator's FORCE and SENSE cables to the FORCE and SENSE triax connectors on the PreAmp (Figure 3). (The SENSE connection is optional.)

Step 5

Connect, route and strain relieve the 4200-RPC-* cable as shown (Figure 3).

Step 6 (optional)

Attach PreAmp Ground lug to probe station ground using supplied Spade lug (Figure 3). See the 4200-SCS Reference Manual, Source Measure Concepts, for more details.

Figure 3
Cable connections

