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**CB-37F-HVD**

## INSTALLATION GUIDE

# 37-Pin High-Voltage Accessory Safety Kit

This guide describes how to use a 37-pin high-voltage D-SUB National Instruments accessory to connect a 37-pin high-voltage D-SUB National Instruments device to your system.

Safety keying is required to ensure that a high-voltage accessory can only be plugged into a high-voltage DAQ device. For example, if you have a PCI-651x 37-pin low-voltage D-SUB device inserted in the same system with a 37-pin high-voltage D-SUB device such as the PCI-6521, keying for safety will allow your high-voltage accessory to only be connected to the high-voltage device. By including the safety keying kit with all high-voltage devices, National Instruments ensures that you can key any NI high-voltage accessory for use with any NI high-voltage DAQ device.

Your 37-pin high-voltage accessory kit contains the following items:

- Two thermoplastic keying plugs (size 20)
- Two Electrical Shock/Electrocution Hazard warning labels
- This installation guide



**Caution** Failure to connect the cable to the high-voltage NI device using the following precautionary steps can result in electrical shock or death.



**Caution** Before you begin installation, ensure that no high-voltage signals are connected to your accessory.

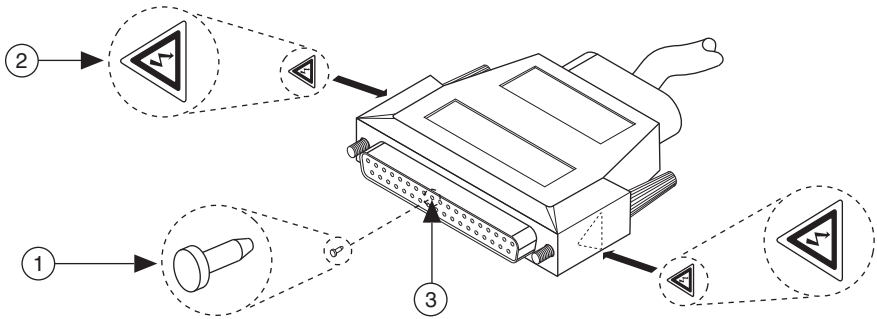


**Caution** Signal connections should be made by a qualified technician or service personnel.

1. Apply a small amount of high-strength adhesive to the tip of the keying plug. NI recommends using a cyanoacrylate adhesive.
2. Insert the keying plug into the pin 11 socket of the I/O connector, as shown in the following figure. The keying plug must be inserted into the corresponding socket for pin 11. Otherwise, keying for safety will not work.



**Tip** To aid in identifying each pin/socket, the pin numbers are marked in small raised font on the black plastic portion of the D-SUB connector.

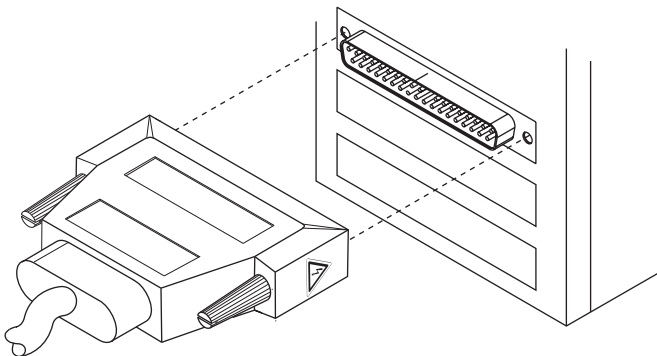


1	Safety Keying Plug	2	High-Voltage Warning Label	3	Pin 11 Socket
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- Remove the adhesive backing and affix the two high-voltage warning labels to the sides of the female I/O connector, as shown in the previous figure.
- Connect the female connector of your high-voltage 37-pin D-SUB accessory to the corresponding I/O connector on the installed high-voltage NI device and tighten the thumbscrews, as shown in the following figure.



**Note** If the female accessory will not plug into the male front connector on your high-voltage NI device, do not force the connection. Ensure that pin 11 is absent from the male front connector, indicating that the device is high-voltage keyed. Ensure that the plug is in the pin 11 socket in the female end of the accessory.



- Connect signals to your accessory as indicated in the wiring instructions in your high-voltage NI device documentation.

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