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***PXI-1045***

# INSTALLATION INSTRUCTIONS

# NI 2806

## Expansion Bridge for the NI SwitchBlock

このドキュメントには、日本語ページも含まれています。

This document describes how to install the NI 2806 expansion bridge for the NI SwitchBlock. Installing the NI 2806 expansion bridge enables you to connect the analog buses of multiple NI SwitchBlock carriers.

For information about enabling multiple devices to connect to the same analog bus line, refer to the *NI Switches Help*.

National Instruments recommends using NI Switch Executive for multicarrier systems. The *NI Switch Executive Help* includes information about creating multicarrier virtual devices using NI Switch Executive.

## What You Need to Get Started

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To use the expansion bridge, you need the following items:

- ☐ NI 2806 expansion bridge for the NI SwitchBlock
- ☐ Two NI PXI-2800 NI SwitchBlock carriers
- ☐ #1 Phillips screwdriver

## Getting Started with the NI 2806 Expansion Bridge for the NI SwitchBlock

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Complete the following steps to install the NI 2806 expansion bridge between two NI SwitchBlock carriers.

1. Power off the chassis.
2. Determine which expansion bridge connectors on each carrier will connect to the expansion bridge.

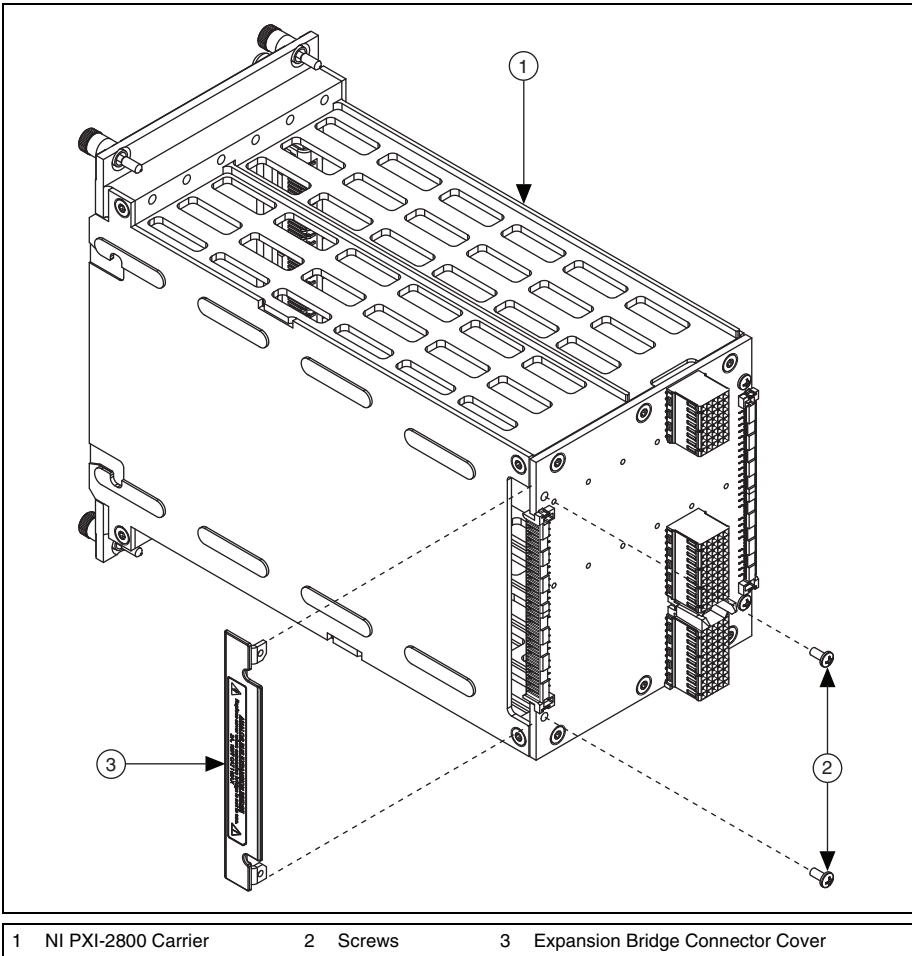
When the carriers you want to connect are adjacent to each other in a PXI chassis, the expansion bridge connectors that face each other will connect to the expansion bridge.

3. Refer to Figure 1 and unscrew the two screws on the expansion bridge connector covers determined in step 2 using the #1 Phillips screwdriver.

4. Remove the expansion bridge connector covers only from the expansion bridge connectors that will connect to the expansion bridge.

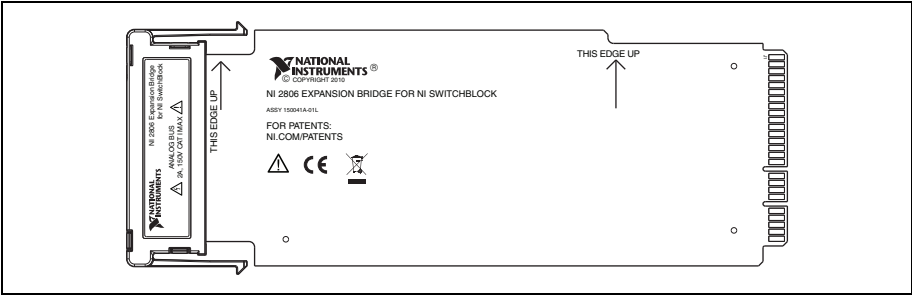


**Caution** You must replace the expansion bridge connector covers if you remove the NI 2806 expansion bridge.



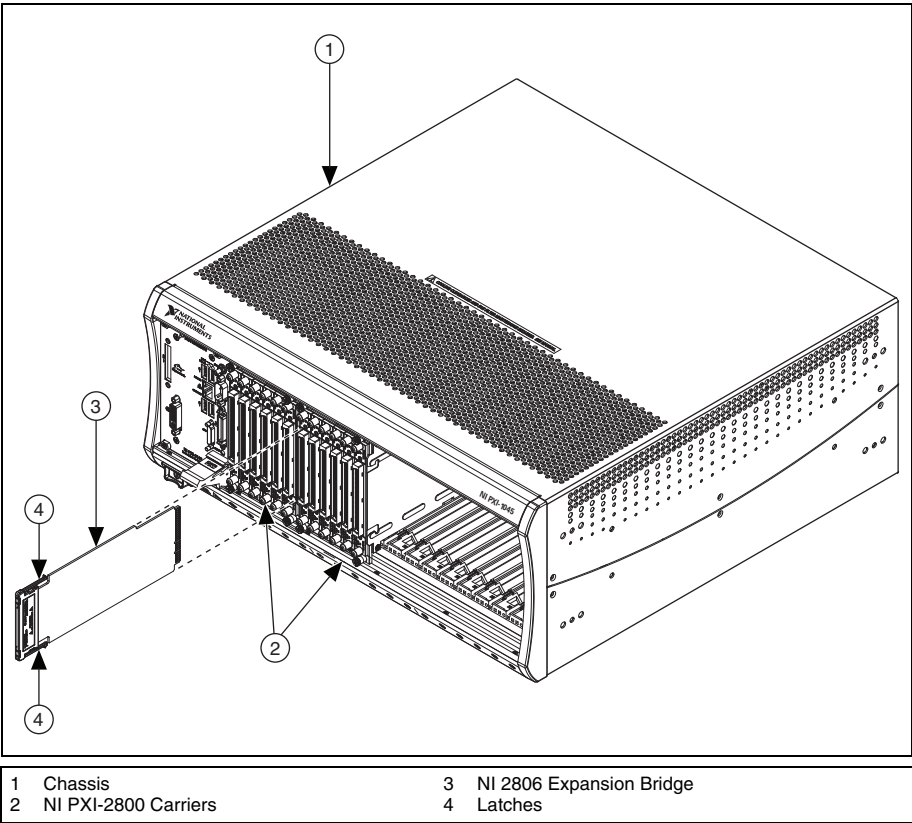
**Figure 1.** Removing the Expansion Bridge Connector Cover from the NI PXI-2800

5. Insert the NI PXI-2800 carriers in adjacent positions in the chassis. For carrier installation instructions, refer to the *NI Switches Getting Started Guide*.
6. Ensure that you hold the expansion bridge in the correct orientation as shown in Figure 2. Note the THIS EDGE UP silk screen on the PCB.



**Figure 2.** Correct Orientation of the NI 2806 Expansion Bridge

7. Refer to Figure 3 and insert the NI 2806 expansion bridge between the two carriers until the latches engage.



**Figure 3.** Inserting the NI 2806 Expansion Bridge

If the latches do not engage, ensure that the expansion bridge is inserted in the orientation shown in Figure 2. The expansion bridge fully inserts only with the correct edge up.



**Note** The NI 2806 expansion bridge should not be used above the operational shock limit. Refer to the NI SwitchBlock carrier or card specifications for these limits. Remove or secure the NI 2806 prior to shipping and prior to use in a high-shock environment.



**Note** To prevent unintentional shorts of source channels between hardwire analog bus paths, you cannot use any NI SwitchBlock carrier connected by the NI 2806 expansion bridge until all connected carriers have been loaded by the driver. Failure to load the driver on any carrier connected by the expansion bridge will disable all other carriers connected to the same bus.

## Removing the NI 2806 Expansion Bridge

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Complete the following steps to remove the NI 2806 expansion bridge:

1. Power off the chassis.
2. Squeeze the expansion bridge latches and pull gently on the expansion bridge.
3. Remove the carriers that were connected to the expansion bridge.
4. Reinstall the expansion bridge connector covers with the provided 2-56 × 3/16 inch long, pan head screws.

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