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INSTALLATION GUIDE

PXIe-1092™ Fan Replacement

This document describes how to remove and install the fan assemblies in a PXIe-1092 chassis.

⚠ **Caution** Disconnect all power cables and wait at least 30 seconds prior to replacing fan assemblies.

Replacing the PXI Module Fan Assembly

Before attempting to replace the rear module fan assembly, verify that there is adequate clearance behind the chassis. Disconnect all power cables from the power supplies on the back of the chassis. Wait at least 30 seconds for the power supplies' internal power to dissipate.
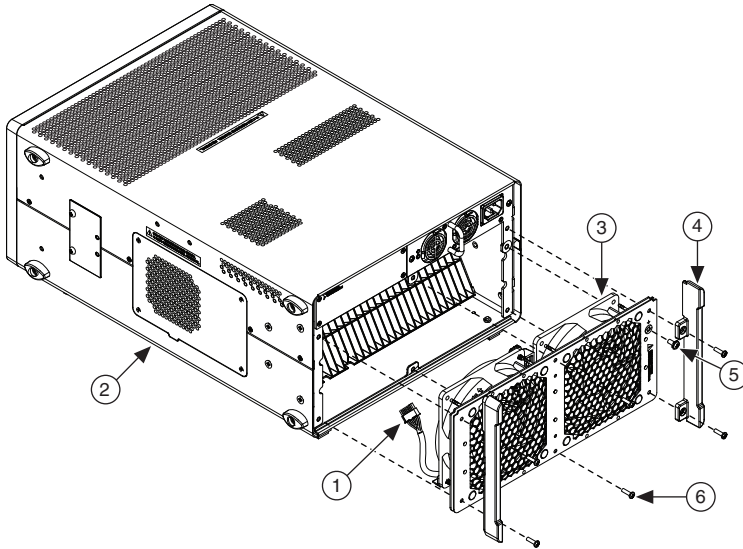
Follow these steps to remove the rear fan assembly:

1. Using a Phillips screwdriver, remove the six #6-32 mounting screws and #8-32 ground screw that attach the fan panel to the chassis. Refer to Figure 1 for more details.

2. Remove the rear chassis feet.

3. With the internal fan harness still connected, carefully pull and rotate fan assembly from rear cavity of chassis. Use caution when removing the fan assembly to avoid damaging the fan wire harness.

4. Disconnect fan harness from the internal chassis receptacle as shown in Figure 2.

Follow these steps to install a new rear fan assembly:

1. Angle the fan assembly to install the fan harness plug into the internal chassis receptacle. Use care to avoid damaging the fan harness or receptacle.

2. Connect the internal fan harness and install fan assembly into the rear cavity of the chassis as shown in Figure 2. Use caution when installing the fan panel assembly to avoid pinching or damaging the wire harness.

3. Replace chassis feet.

4. Using a Phillips screwdriver, tighten the six #6-32 mounting screws and #8-32 ground screw into the rear of the chassis. To meet the shock and vibration specifications listed in the *PXIe-1092 Specifications*, tighten screws to 11.5 lb · in. (1.3 N · m) of torque.
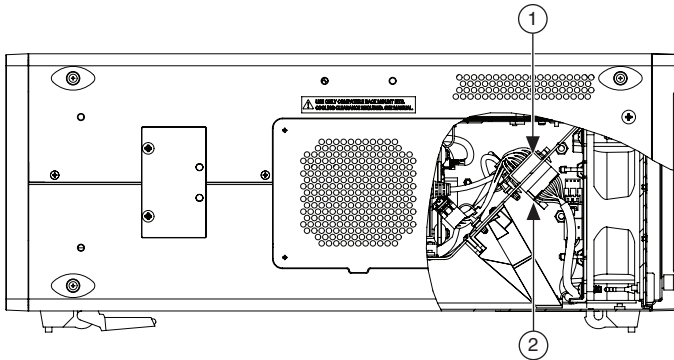
Figure 1. Replacing the Rear Fan Assembly

1	Fan Harness Plug	4	Rear Chassis Feet (2x)
2	PXIe-1092 Chassis	5	Ground Screw
3	PXI Module Fan Assembly	6	Mounting Screws (6x)

Figure 2. Internal Fan Harness

1	Fan Receptacle	2	Fan Harness Plug

Replacing the Side Fan Assembly

Before attempting to replace the side fan assembly, verify that there is adequate clearance to the side of the chassis. Disconnect all power cables from the power supplies on the back of the chassis. Wait at least 30 seconds for the power supplies' internal power to dissipate.
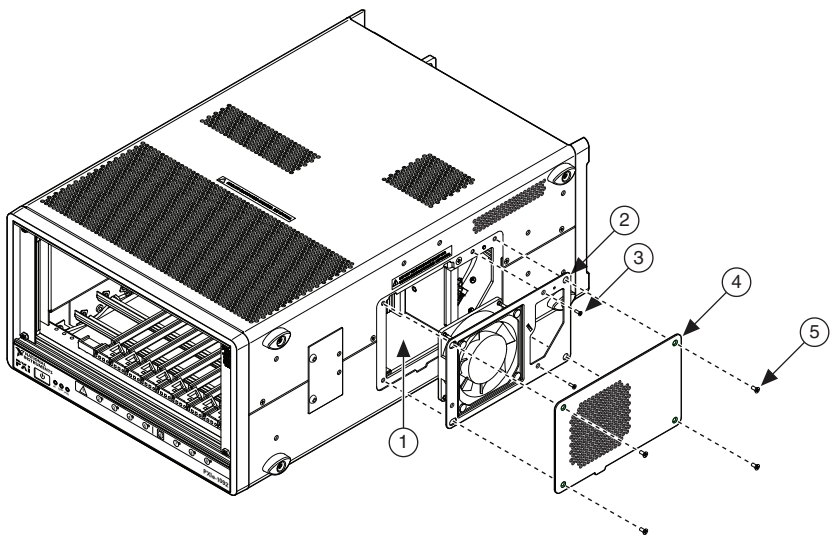
Complete the following steps to remove the side fan assembly:

1. Using a Phillips screwdriver, remove the four #4-40 mounting screws that attach the side fan cover.
2. Remove the side fan cover from chassis.
3. Using a Phillips screwdriver, remove the two #2-56 mounting screws that hold the side fan assembly onto the chassis.
4. Locate the side fan assembly harness in the internal chassis cavity and disconnect the fan from the chassis receptacle. Use caution when removing the fan assembly to avoid damaging the internal wire harness.
5. Pull the side fan assembly straight from chassis and remove.

Complete the following steps to install a new side fan assembly.

1. Plug the side fan assembly plug into the internal chassis fan receptacle.
2. Set the side fan assembly into the chassis side fan cavity. Use caution when placing the wire harness into the chassis to avoid damaging the internal or fan wire harness.
3. Using a Phillips screwdriver, hand tighten the two #2-56 side assembly mounting screws to the chassis. To meet the shock and vibration specifications listed in the *PXIe-1092 Specifications*, tighten screws to 5.0 lb · in. (0.6 N · m) of torque. Use the side fan cutout to pull clear extra cable from chassis side panels to prevent pinching.
4. Place all extra cable into chassis side fan cavity.
5. Using a Phillips screwdriver, tighten the four #4-40 side fan cover mounting screws to the chassis. To meet the shock and vibration specifications listed in the *PXIe-1092 Specifications*, tighten screws to 6.7 lb · in. (0.8 N · m) of torque.

Figure 3. Replacing the Side Fan Assembly

1	Chassis Side Fan Cavity	4	Side Fan Cover
2	Side Fan Assembly	5	Side Fan Cover Mounting Screws (4x)
3	Side Fan Bracket Mounting Screws (2x)		

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