SPIRENT®

SPT-N11U Chassis Power Supply Installation Instructions

The Spirent SPT-N11U mainframe chassis houses up to twelve slot power supplies that are accessible via the rear panel. There are three system power supplies for the system controller and fans that are not user serviceable.

Each slot power supply operates independently and is responsible for powering a test module in its designated slot.

Warning: These power supplies are NOT hot swappable and power must be removed from the system before proceeding.

In order to minimize the unpacking and installation weight of the chassis, the chassis ships with only two slot power supplies installed. The remaining power supplies should be installed after the system has been unpacked and racked.

To install a power supply in an SPT-N11U chassis:

1 Make sure the chassis is powered down and that no power cords are connected to the power cord sockets.

2 Remove the rear fan tray panel which contains the power supplies. The fan tray panel is held in place by two latches that are secured by thumbscrews (*Figure 1*).
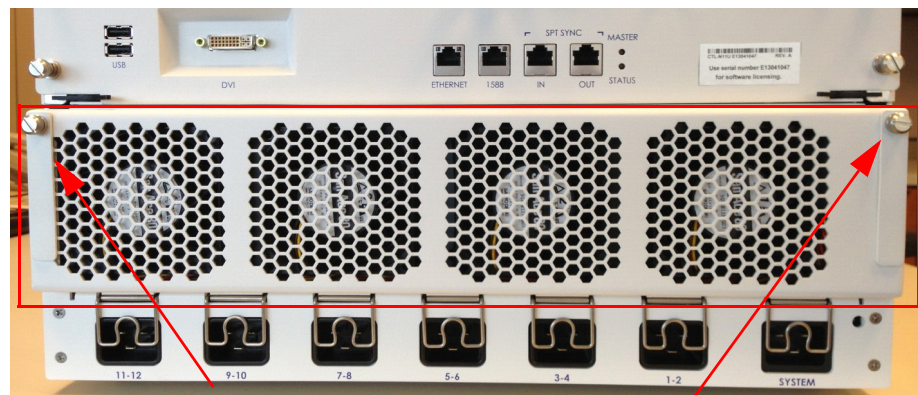

Figure 1. Pull the Spring-loaded Pins

a Unscrew the thumbscrews (see arrows in *Figure 1 on page 1*) and gently pull down the latches to a 90-degree position (*Figure 2*).

Figure 2. Pull Down the Latches

b The fan tray panel is friction fit, so it must be pulled outward by gently rocking it top to bottom, with two hands, as you pull it toward you (*Figure 3*).

Place the fan tray panel aside. The power supply cage is now exposed (*Figure 4 on page 3*).

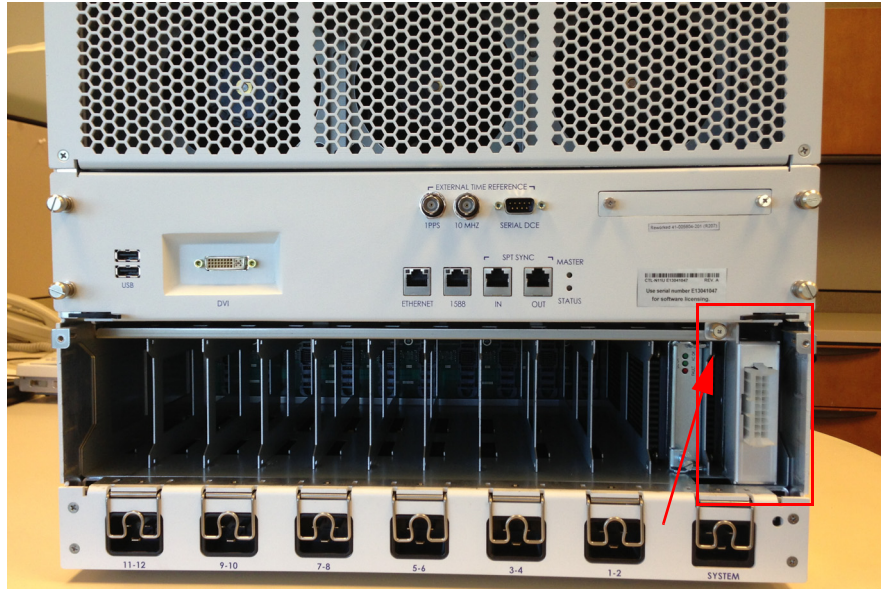**Figure 3.** Gently Rock Fan Tray Panel to Remove

Figure 4.   Power Supply Cage

Note: The power supply for slot 1 (on the right when viewing from the rear) is behind the fan tray connector (refer to *Figure 4*). The slot 1 power supply is normally pre-installed at the factory, but if you must access it for servicing, you must remove the phillips-head screw (arrow in *Figure 4*), and slide the connector out of the way, to access this power supply.

3   Insert the power supplies with the heat sinks facing to the left (*Figure 5*). The power supply latch must be pulled out so the flat surface is facing towards you (see *Figure 6 on page 4*).

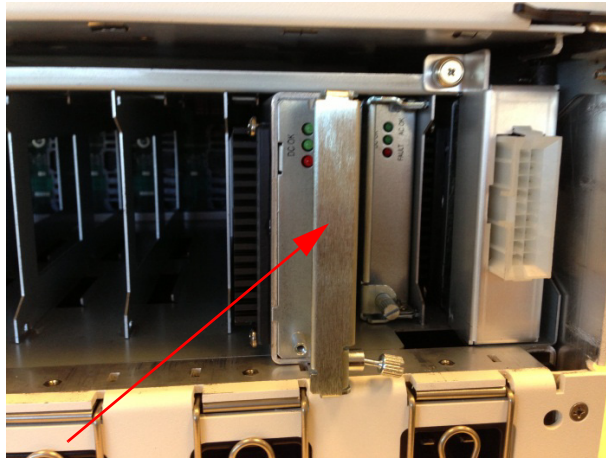**Figure 5.**   Heat Sink Facing Left

Figure 6.   Flat Surface of Power Supply Latch

4   Slide the power supply all the way forward until it stops. It should not require very much pressure.

5   Start folding the latch back towards the power supply so that it catches the bracket and begins to lever the power supply forward (*Figure 7*).

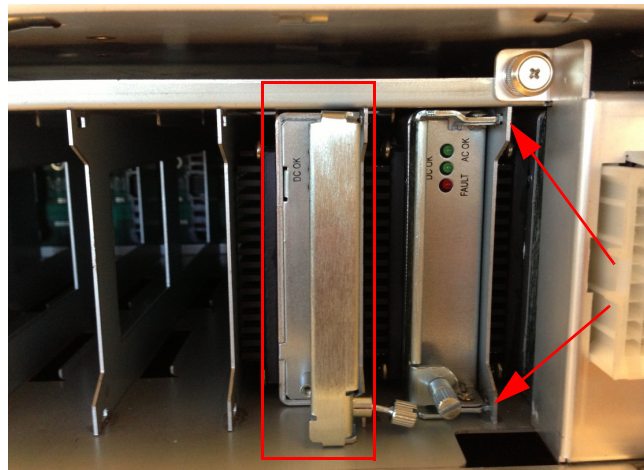The latch should sit flush against the power supply.

Figure 7.   Power Supply on Left Ready for Latching to the Cage

Figure 7 shows a power supply on left ready to be secured. The arrows on the right illustrate where a power supply latch levers into the cage.

6   Use a slotted screwdriver to secure the bracket to the power supply housing (*Figure 8 on page 5*).

Figure 8.   Secure the Bracket with Slotted Screwdriver

7 Re-fit the fan tray panel with the brackets in their unsecured 90-degree position (*Figure 9*).

   a Rock the panel top to bottom, with both hands, while pushing it towards the chassis until it is seated.

   b Fold up the two hinged brackets and tighten the thumbscrews (*Figure 10 on page 6*).

Figure 9.   Fan Tray in Place with Brackets in Unsecured Position

Figure 10.   Fold up the Brackets and Tighten Thumbscrews

This completes the installation.

To *remove* the power supplies, reverse steps 2-6.

How to Contact Us

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The latest versions of user manuals, application notes, and software and firmware updates are available on the Spirent Communications support website at http://support.spirent.com.

Information about Spirent Communications and its products and services can be found on the main company website at http://www.spirent.com.

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