CISCO SYSTEMS

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Cisco 12012 Gigabit Switch Router Replacement Instructions

Product Number: GSR12/15
Document Order Number: DOC-784332=

This document contains important instructions for unpacking the
Cisco 12012 Gigabit Switch Router (GSR); review these instructions *before* you open the shipping container. After you unpack the system, follow the instructions in the
Cisco 12012 Gigabit Switch Router Installation and Configuration Guide to install the router.

The Cisco 12012 Gigabit Switch Router shipping packaging consists of the following components:

- Wooden shipping container—consists of two wooden side panels, two wooden end panels, and a wooden top cap

- Pallet

- Foam top cap

- These unpacking instructions

- Accessories box

- Large cardboard box

- AC-input power supply foam inserts

Before moving the system to a permanent site, we recommend that you review the site, safety, and environmental considerations provided in the
Cisco 12012 Gigabit Switch Router Installation and Configuration Guide.

1

Safety Guidelines

Before you begin the unpacking procedure, review the safety guidelines in this section to avoid injuring yourself or damaging the equipment.

In addition, review the safety warnings listed in the document *Regulatory Compliance and Safety Information for the Cisco 12000 series Internet Router* (Document Number 78-4347-xx) that accompanied your Cisco 12012 GSR before installing, configuring, or maintaining the router.

⚠ **Caution**   Do not attempt to lift the fully assembled Cisco 12012 GSR from the pallet. A fully configured Cisco 12012 GSR with two DC-input power supplies installed in the power supply bay weighs 334 lb (151.5 kg).

When lifting the Cisco 12012 GSR components, follow these precautions to avoid injury to yourself and/or damage to the equipment:

- Two people are required to lift the Cisco 12012 GSR frame or the empty Cisco 12012 GSR card cage assembly.

- Keep your back straight; lift with your legs.

- Always remove all components before lifting the frame. The empty frame weighs 75 lb (34 kg).

- Always remove all cards and power supplies before lifting the card cage assembly. An empty card cage assembly weighs 65 lb (29.5 kg).

- Use a hand cart, pallet jack, or forklift to move the system to another location.

- The Cisco 12012 GSR shipping container is 25-inches (63.5 cm) wide, 38-inches (96.5 cm) long, and 72-inches (182.9 cm) high. Note the dimensions of the shipping container *before* moving it to ensure you have adequate clearance through doors and passages.

Note   Do not destroy the wooden and cardboard shipping containers. Store them with the pallet. Use these containers to either transport the system, or, if necessary, return it to the factory.

Cisco 12012 GSR system packaging is orderable as a field replaceable unit; order Product Number PKG-GSR12=

Removing the Wooden Shipping Container

The wooden shipping container consists of two side panels, two end panels, and a wooden top cap. Bendable metal tabs and slots secure the shipping container pieces together.

Note   Retain the shipping container components for future use.

⚠ **Caution**   The metal edges of the wooden side panels, wooden cap, and the pallet can be sharp. Use caution when working around and handling the packaging pieces.

Perform the following steps to remove the wooden shipping container (refer to Figure 1):

Step 1   Using a hand cart, pallet jack, or forklift, place the Cisco 12012 GSR shipping container as near to the installation location as possible. Ensure that you have sufficient room to unpack the system.

Step 2   Remove the system packaging wooden top cap as follows:

(a)   Using a flat-blade screwdriver or pliers, straighten the 12 tabs that secure the wooden top cap to the top of the system packaging (four tabs on the top edge of each side panel; two tabs on the top edge of each end panel.)

(b)   Lift up the wooden top cap and remove it from the top of the system packaging. Set the wooden top cap aside.

Step 3   Remove a wooden side panel as follows:

(a)   Using a flat-blade screwdriver or pliers, straighten the 12 tabs that secure the wooden side panel to the end panels and the pallet (four on each end; four on the bottom.)

(b)   Pivot the side panel out, away from the system, to disengage the eight end panel tabs from the side panel slots.

(c)   Lift up the side panel to disengage the four side panel tabs from the pallet slots. Set the side panel aside.

Repeat Step a through Step c for the second side panel.

Step 4   Remove a wooden end panel as follows:

(a)   Using a flat-blade screwdriver or pliers, straighten the two tabs that secure an end panel to the pallet.

(b)   Lift up the end panel to disengage the two end panel tabs from the pallet slots. Set the end panel aside.

Repeat Step a and Step b for the second end panel.

Step 5   Remove the foam top cap from the system and set it aside.

Removing the Accessories Box and Redundant AC-Input Power Supplies

The large cardboard box on the front of the pallet contains the accessories box and might contain up to two AC-input power supplies. (Refer to Figure 1).
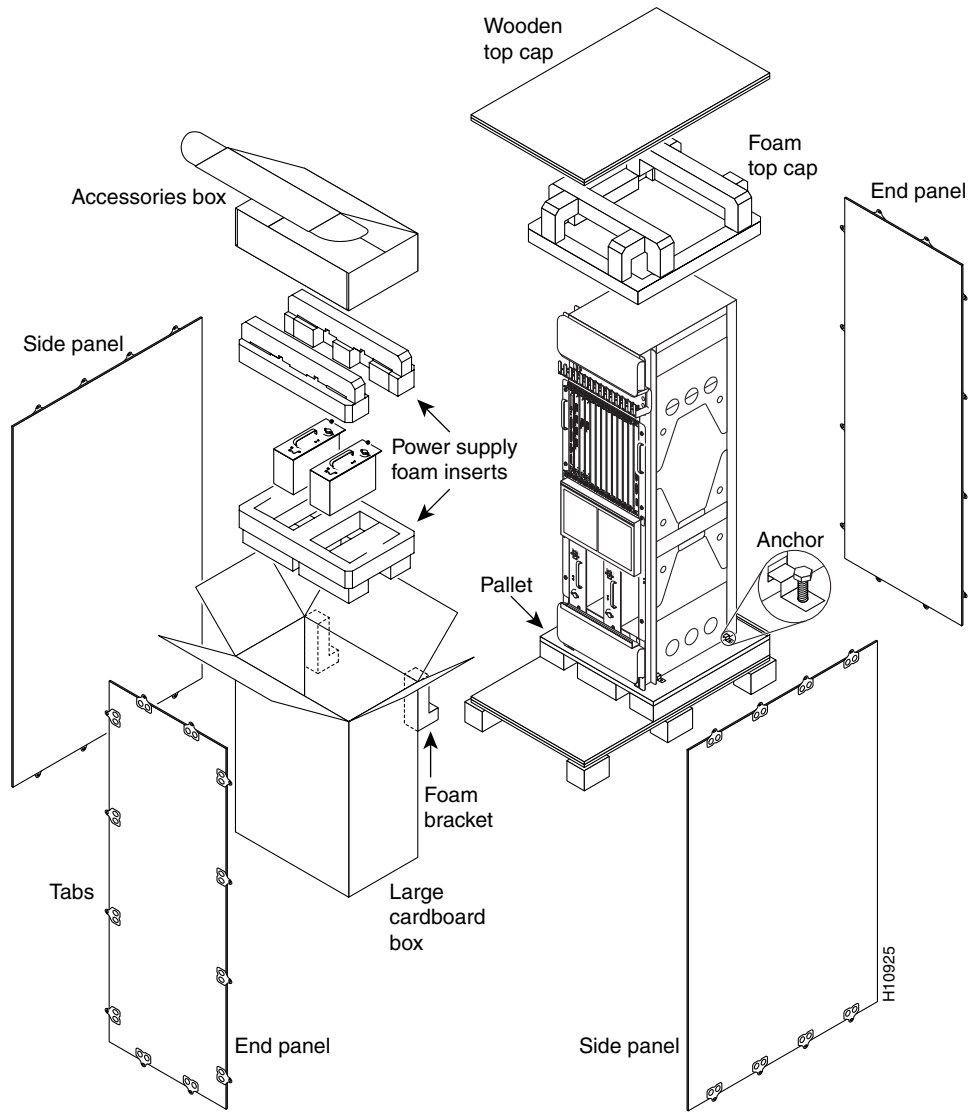
The Cisco 12012 Gigabit Switch Router can be configured with either AC-input or DC-input power supplies. Up to two AC-input or DC-input power supplies are shipped installed in the system power supply bay. Systems configured with three or four AC-input power supplies (for power supply redundancy) are shipped with two power supplies installed in the power supply bay and one or two power supplies packaged in foam inserts in a large cardboard box.

Cisco 12012 GSR systems shipped configured with DC-input power supplies have either one or two power supplies installed in the system power supply bay. The accessories box is placed on top of three foam inserts in the large cardboard box.

Perform the following steps to remove the accessories box and any AC-input power supplies:

Step 1   Cut the shipping tape that secures the large cardboard box flaps and open the flaps.

Step 2   Lift the accessories box out of the large box. (Finger holes in the accessories box are provided to make it easier for you to remove the accessories box from the large box.) Set the accessories box aside.

Figure 1   Packaging Detail for the Cisco 12012 Gigabit Switch Router

Step 3 If the large cardboard box contains AC-input power supplies, perform the following steps to remove them from the packaging:

    (a) Remove the two foam inserts covering the AC-input power supplies.

    (b) Grasp the AC-input power supply handle and carefully lift the power supply out of the box. Set the power supply aside.

    (c) Repeat Step a and Step b for a second AC-input power supply.

Step 4 Grasp the edges of the large cardboard box and pull the box out, away from the system, to release the two foam brackets positioned under the air filter tray. Remove the box from the pallet and set it aside.

The system is now ready for installation. Open the accessories box and locate the documentation package that accompanies the Cisco 12012 GSR. Follow the installation procedures in the *Cisco 12012 Gigabit Switch Router Installation and Configuration Guide*.

FCC Class A Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio-frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to correct the interference at their own expense.

You can determine whether your equipment is causing interference by turning it off. If the interference stops, it was probably caused by the Cisco equipment or one of its peripheral devices. If the equipment causes interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.

- Move the equipment to one side or the other of the television or radio.

- Move the equipment farther away from the television or radio.

- Plug the equipment into an outlet that is on a different circuit from the television or radio. (That is, make certain the equipment and the television or radio are on circuits controlled by different circuit breakers or fuses.)

Modifications to this product not authorized by Cisco Systems, Inc. could void the FCC approval and negate your authority to operate the product.

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CCO serves a wide variety of users through two interfaces that are updated and enhanced simultaneously: a character-based version and a multimedia version that resides on the World Wide Web (WWW). The character-based CCO supports Zmodem, Kermit, Xmodem, FTP, and Internet e-mail, and it is excellent for quick access to information over lower bandwidths. The WWW version of CCO provides richly formatted documents with photographs, figures, graphics, and video, as well as hyperlinks to related information.

You can access CCO in the following ways:

- WWW: http://www.cisco.com

- WWW: http://www-europe.cisco.com

- WWW: http://www-china.cisco.com

- Telnet: cco.cisco.com

- Modem: From North America, 408 526-8070; from Europe, 33 1 64 46 40 82. Use the following terminal settings: VT100 emulation; databits: 8; parity: none; stop bits: 1; and connection rates up to 28.8 kbps.

For a copy of CCO's Frequently Asked Questions (FAQ), contact cco-help@cisco.com. For additional information, contact cco-team@cisco.com.

Note If you are a network administrator and need personal technical assistance with a Cisco product that is under warranty or covered by a maintenance contract, contact Cisco's Technical Assistance Center (TAC) at 800 553-2447, 408 526-7209, or tac@cisco.com. To obtain general information about Cisco Systems, Cisco products, or upgrades, contact 800 553-6387, 408 526-7208, or cs-rep@cisco.com.