



## CHAPTER 5

# Installing and Removing the Doors and Grille

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This chapter provides instructions on how to install and remove the front doors and inlet grille on the Cisco CRS Carrier Routing System 4-Slot Line Card Chassis.

This chapter presents the following topics:

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- [Installing the Inlet Grille, page 5-1](#)
- [Removing the Inlet Grille, page 5-3](#)
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## Overview of the Exterior Components

Exterior cosmetic components for the Cisco CRS 4-slot line card chassis are not required to be installed; they are provided as optional components (except for the cable management bracket, which is preinstalled). The the Cisco CRS 4-slot line card chassis is shipped with the following exterior components:

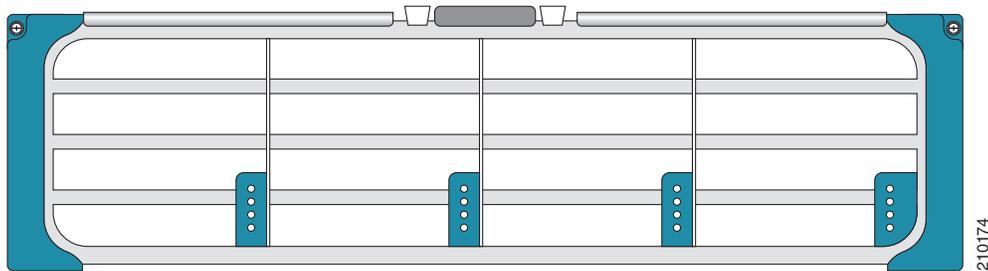
- Cable management bracket—Shipped preinstalled on the chassis.
- Inlet grille—If the cosmetic kit was ordered, the inlet grille is included in the door kit.
- Front doors—Cisco CRS 4-Slot Line Card Chassis Front Door kit (Cisco product number: CRS-4-DOOR-KIT=)

## Installing the Inlet Grille

This section describes how to install the inlet grille. The inlet grille covers the power supply and air intake areas at the bottom of the front side of the chassis, just below the card cage.

Figure 5-1 shows the inlet grille.

**Figure 5-1** Inlet Grille



## Prerequisites

There are no prerequisites for installing the inlet grille.

## Required Tools and Equipment

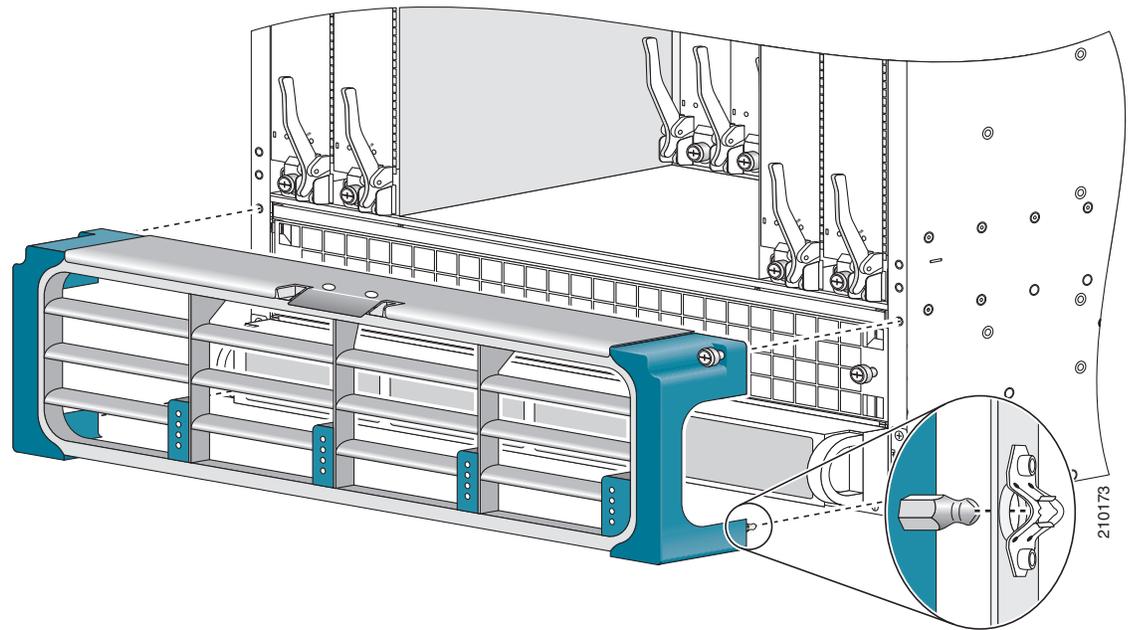
You need the following tools and part to perform this task:

- ESD-preventive wrist strap
- Inlet grille
- Number 2 flat screwdriver

## Steps

To install the inlet grille, follow these steps:

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- Step 1** Remove the inlet grille from its packaging, then set the packaging aside.  
The inlet grille is packaged in the door assembly box.
  - Step 2** Attach the ESD-preventive wrist strap to your wrist and connect its leash to an ESD connection socket on the front side or a bare metal surface on the chassis.
  - Step 3** Align the ball studs at the bottom of the inlet grille with the cutouts at the bottom of the chassis casing on the front side of the chassis, just in front of the power supplies (see [Figure 5-2](#)).
  - Step 4** Push the inlet grille toward the chassis, and snap the ball studs into place.
  - Step 5** Make sure you align the light pipes to the corresponding openings in the power filter.
  - Step 6** With a Number 2 flat screwdriver, tighten the two captured screws at the upper right and left corners of the grille.

**Figure 5-2** *Aligning the Inlet Grille*

## What to Do Next

You can now install the doors (see the [“Installing the Doors”](#) section on page 5-4).

## Removing the Inlet Grille

This section describes how to remove the inlet grille. The grille covers the power module and air intake areas at the bottom of the front (PLIM) side of the chassis, just below the card cage.

## Prerequisites

No prerequisites exist for this task.

## Required Tools and Equipment

You need the following tools to perform this task:

- ESD-preventive wrist strap
- Number 2 flat screwdriver

## Steps

To remove the inlet grille, follow these steps:

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- Step 1** Attach the ESD-preventive wrist strap to your wrist and connect its leash to an ESD connection socket on the front side or a bare metal surface on the chassis.
  - Step 2** If the doors have been installed, open the doors to get complete access to the grille.
  - Step 3** Using the Number 2 flat-blade screwdriver, unscrew the two captured screws at the upper right and left corners of the grille.
  - Step 4** Firmly grasp the outside edges of the inlet grille.
  - Step 5** Pull the bottom of the grille firmly away from the chassis; it loosens from the connecting ball studs.
  - Step 6** Carefully set the inlet grille aside.
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## Installing the Doors

This section describes how to install the doors on the Cisco CRS 4-slot chassis. We recommend that you install the doors when the chassis has been mounted into its rack.

### Prerequisites

Before you install the doors on the Cisco CRS 4-slot chassis, you must install the grille as described above.

### Required Tools and Equipment

You need the following tool and parts to perform this task:

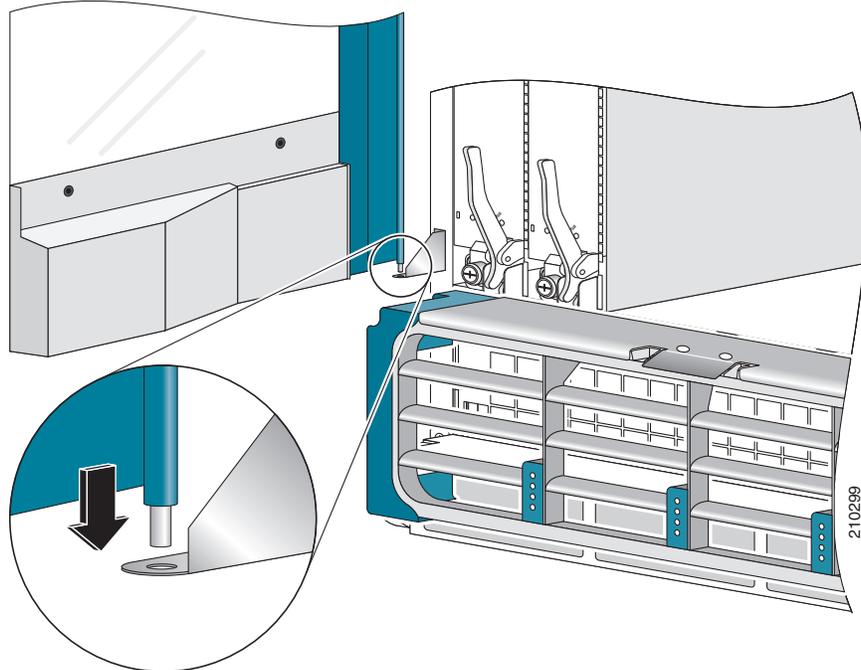
- ESD-preventive wrist strap
- Left and right doors (Cisco product number: CRS-4-DOOR-KIT)

## Steps

To install the doors on the Cisco CRS 4-slot chassis, follow these steps:

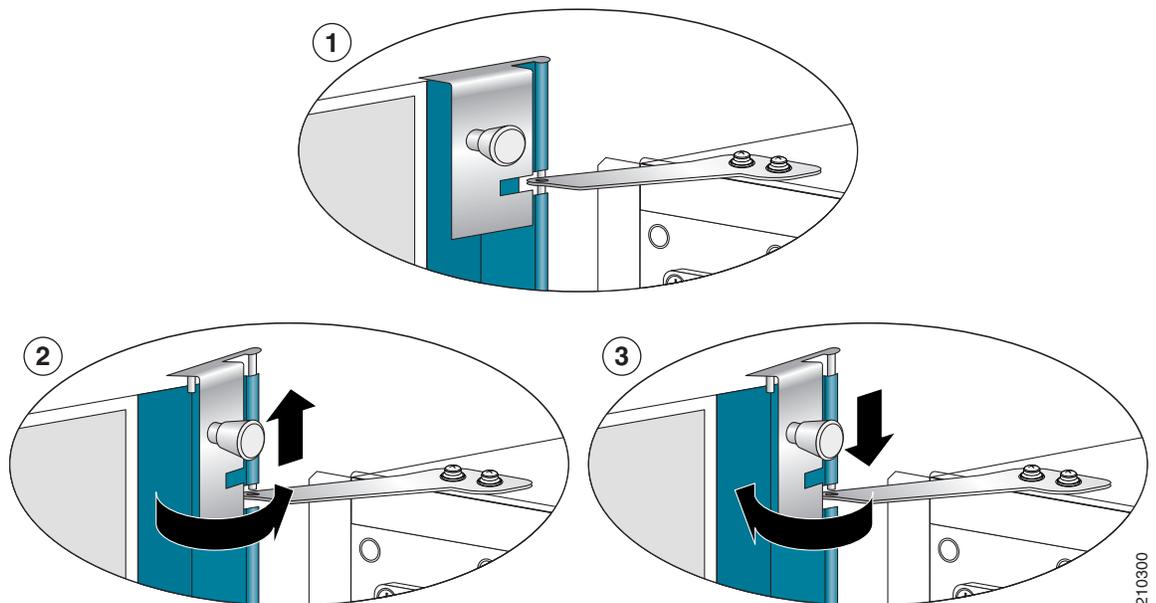
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- Step 1** Remove the door from its packaging (including the protective film that covers each door), and set the packaging aside.
  - Step 2** Attach the ESD-preventive wrist strap to your wrist and connect its leash to an ESD connection socket or a bare metal surface on the chassis.
  - Step 3** Starting with the left door, align the bottom guide pin over the hole in the lower door mounting bracket (see [Figure 5-3](#)).
  - Step 4** Drop the door's bottom guide pin into the lower door mounting bracket hole (see [Figure 5-3](#)).

**Figure 5-3** *Setting the Door Into the Lower Door Mounting Bracket*



- Step 5** Now secure the upper portion of the door. Keeping the door steady with one hand, align the door groove (on the upper inside portion of the door) with the upper door mounting bracket (see Step 1 in [Figure 5-4](#)).
- Step 6** Pull the knob latch out, then lift the knob latch up so that the securing pin clears the upper door mounting bracket (see Step 2 in [Figure 5-4](#)).

**Figure 5-4** *Using the Knob Latch to Secure the Top of the Door*



**Tip**

Observe that there is a guide pin on top of the knob latch.

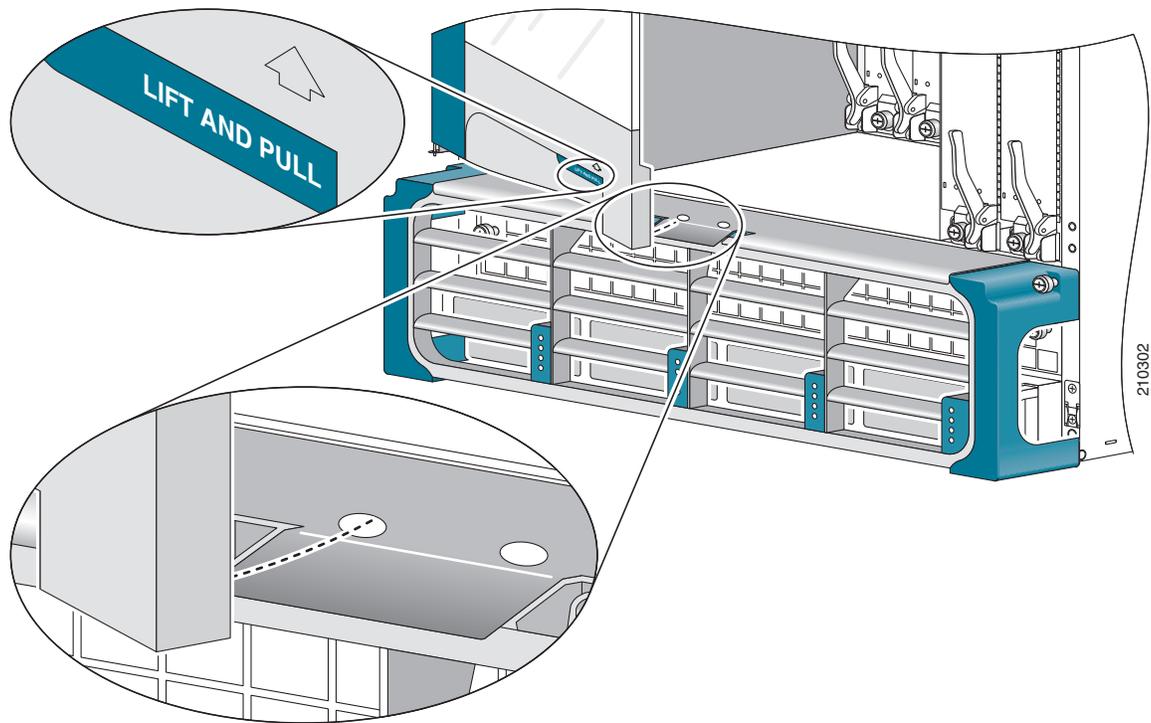
- Step 7** Keeping the knob latch at a shallow angle, align the securing pin and guide pin with the upper door mounting bracket.

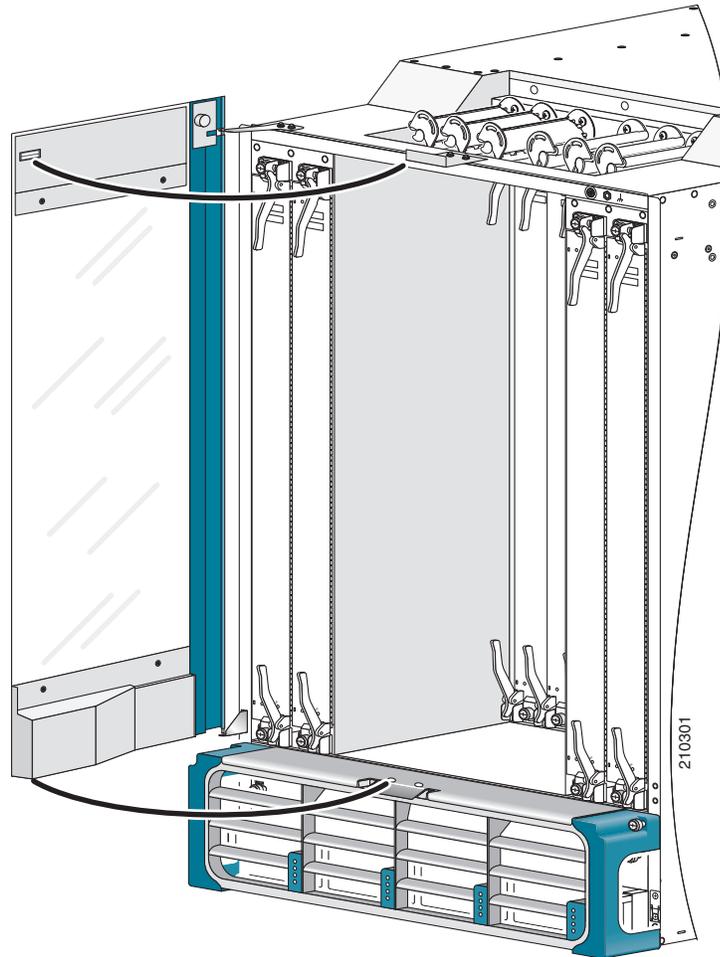


**Note** You must align both the knob latch and the guide pin before the securing pin will drop properly.

- Step 8** Pull the knob out, then drop the securing pin into the mounting bracket (see Step 3 in [Figure 5-4](#)).
- Step 9** To close the door, lift the latch button at the base of the door (see [Figure 5-5](#)), then push the door closed. The door will snap closed when the door magnets (on the inside top of the door) snap into place and the latching pin on the bottom of the door falls into the receiving holes on the striker panel (see [Figure 5-6](#)).
- Step 10** Repeat this procedure for the right door.

**Figure 5-5** Lifting the Latch Button to Open the Door



**Figure 5-6** Closing the Door

## Opening the Doors

To open the doors on the Cisco CRS 4-slot line card chassis, follow these steps:

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- Step 1** Lift the latch button at the base of the door (as shown in [Figure 5-5](#)).
  - Step 2** Pull the door open.
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## Removing the Doors

To remove the doors from the Cisco CRS 4-slot line card chassis, follow these steps:

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- Step 1** Open the door you want to remove.
  - Step 2** While supporting the door with one hand, reach inside the door, pull out the knob latch, then lift the latch out from the upper door mounting bracket.
  - Step 3** With both hands grasping the door, lift the door out of the lower door mounting bracket.
  - Step 4** Place the door in a safe storage box.
  - Step 5** Repeat this procedure for the other door.
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