IBM PureFlex Rack Door Kit

This document provides the instructions for installing the IBM® PureFlex™ Rack Door Kit on the IBM PureFlex System Rack and Expansion Rack, Type 9363.

If documentation updates are available, you can download them from the IBM website. The rack might have features that are not described in the documentation that comes with the product, and the documentation might be updated occasionally to include information about those features, or technical updates might be available to provide additional information that is not included in the rack documentation. To check for updates, go to http://www.ibm.com/supportportal/.

For more information about rack cabinets and options, see http://www.ibm.com/systems/xbc/cog/rackcabinetsoptions/rackcabinetsoptions.html.

Door kit contents

The door kit contains the following items:

- IBM PureFlex Rack Door
- One top hinge bracket
- One bottom hinge bracket
- One door catch
- Front stabilizer kit (contains the front stabilizer plate and front air dam)
- Nameplate
- Large and small screws

Tool requirements

Use the tools in the following list to remove the existing rack front door and install the IBM PureFlex Rack Door Kit on the rack cabinet:

- Ratchet, 1/4-inch drive, reversible (part number 1650887)
- Socket 10 MM, 1/4-inch drive (part number 73G1463) (Use this tool for the hinges and door catch screws.)
- Wrench 10 MM, combination open / box (part number 73G1468) (Use this tool for the nuts for the door catch screws.)
- Philips screwdriver, #2 x 4-inch (part number 73G5363) (Optional. Use this tool for the hinge brackets and door catch screws.)
- Cage nut insertion tool (part number 28L0598 (Use this tool for the cage nut installation for the top hinge bracket.)
- Flat-head screwdriver, 3/32-inch x 3-inch (part number 73G5366) (Optional. Use this tool for cage nut installation for the top hinge bracket.)

Statement 12:

CAUTION:
See the instructions in the rack documentation before you install devices, remove devices, or relocate the rack.

Removing the installed rack front door and hardware (9363-4PX and 9363-4EX only)

This section describes how to remove the installed rack front door and hardware.

To remove the existing rack front door, complete the following steps:

1. Unlock and open the door.

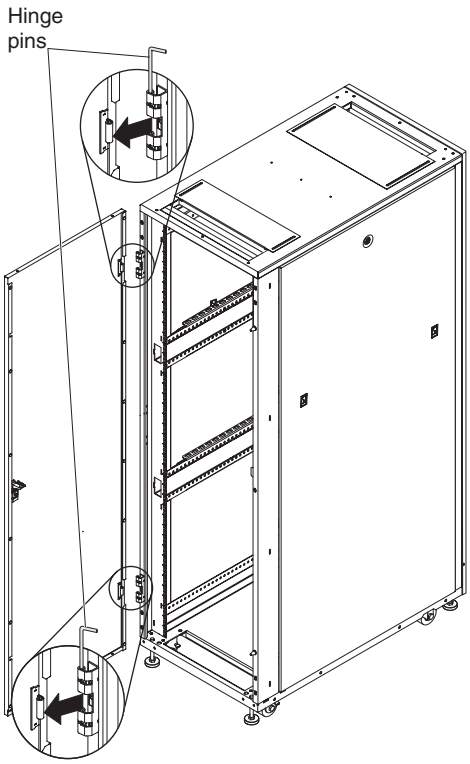

Figure 1. Removing the front door (9363-4PX and 9363-4EX only)

2. Holding the door firmly with one hand, lift both hinge pins until they lock in the open position. This releases the door from the hinges.
3. Grasp the door firmly with both hands and pull it away from the hinges; then, set the door aside.

4. Remove the two door hinges and the door catch.

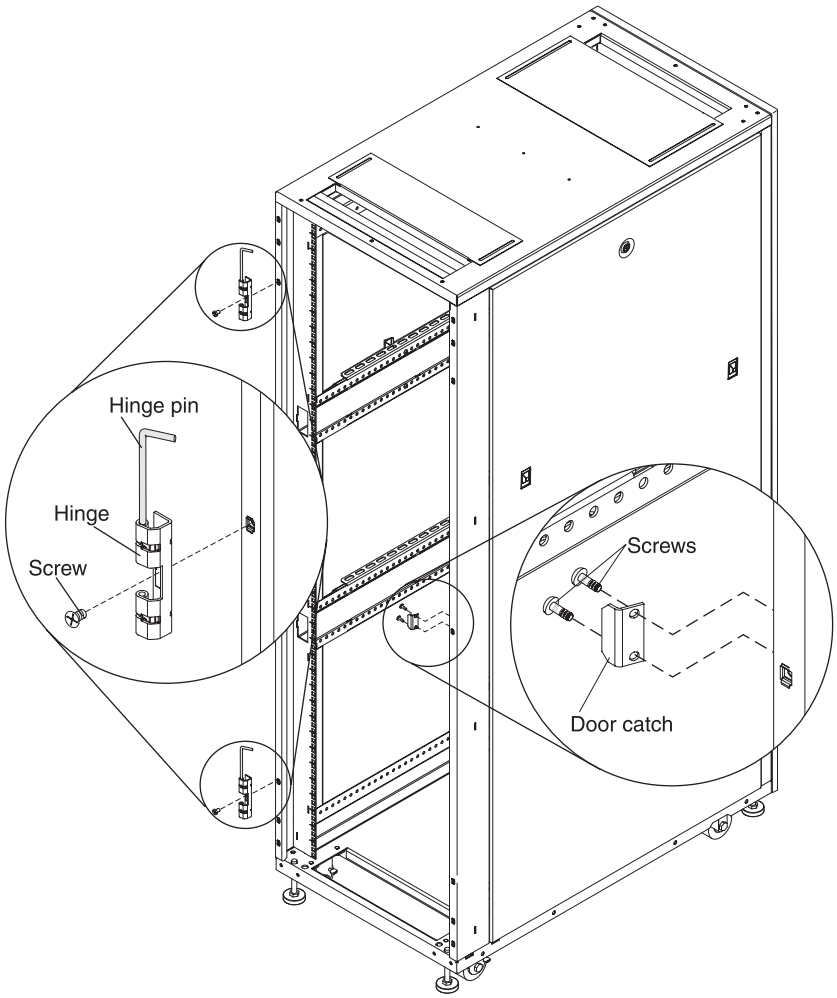

Figure 2. Removing the door hinges and door catch (9363-4PX and 9363-4EX only)

Removing the installed rack front door and hardware (9363-4AX, and 9363-4BX only)

This section describes how to remove the installed rack front door and hardware.

To remove the existing rack front door, complete the following steps:

1. Unlock and open the door.

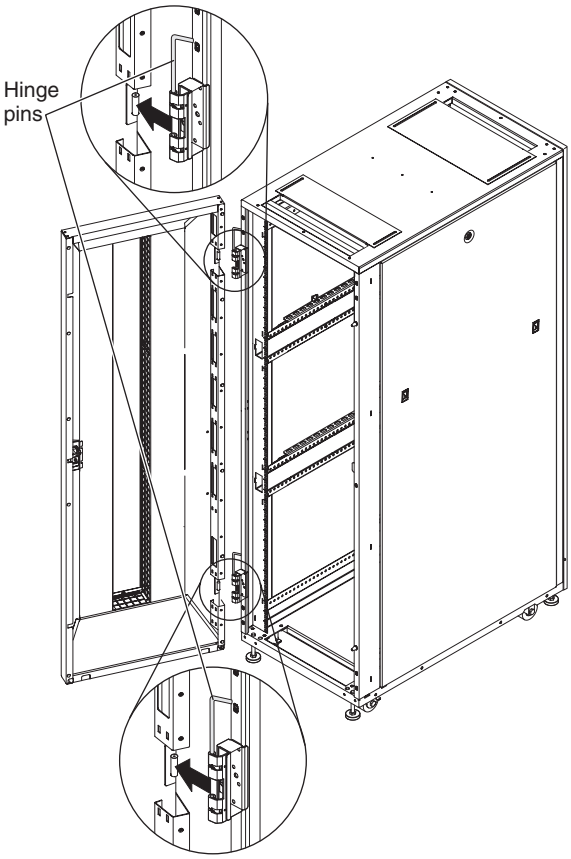

Figure 3. Removing the front door (9363-4AX, and 9363-4BX)

2. Holding the door firmly with one hand, lift both hinge pins until they lock in the open position. This releases the door from the hinges.
3. Grasp the door firmly with both hands and pull it away from the hinges; then, set the door aside.

4. Remove the two door hinges and the door catch.

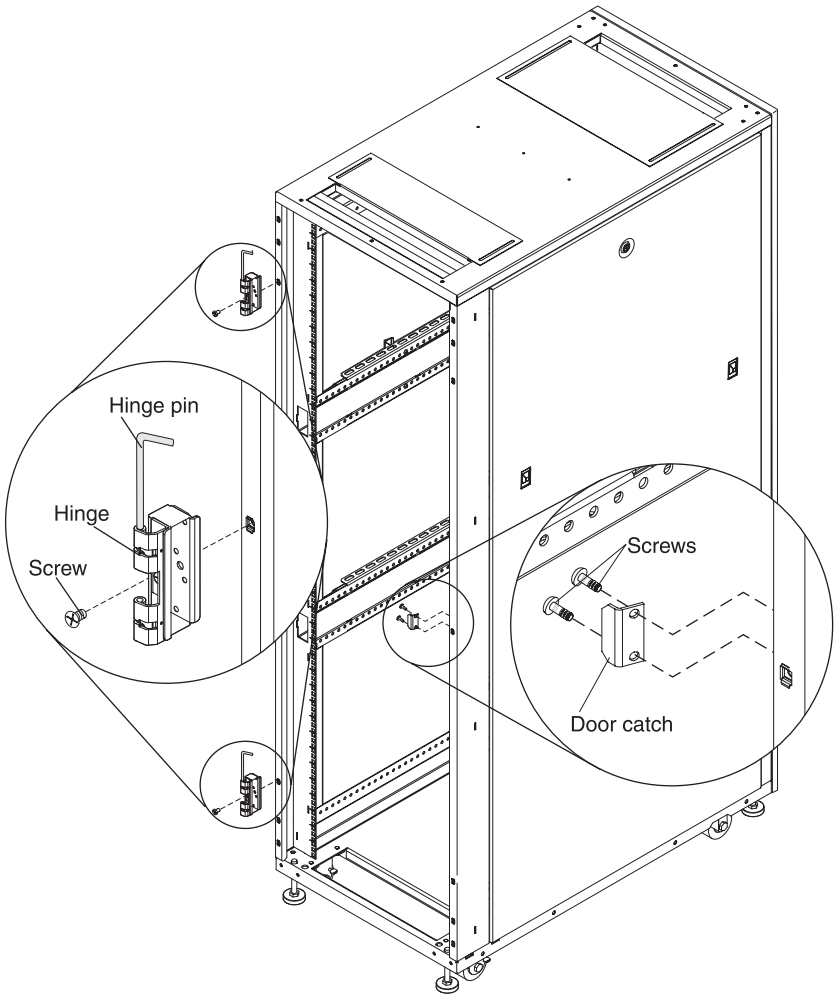

Figure 4. Removing the door hinges and door catch (9363-4AX, and 9363-4BX)

Installing the PureFlex Rack Door Kit

To install the PureFlex Rack Door on the rack, complete the following steps:

1. Make sure that the existing hinges and door catch are removed.
2. Install cage nuts in the upper two holes on the rack flange on the left side of the rack.

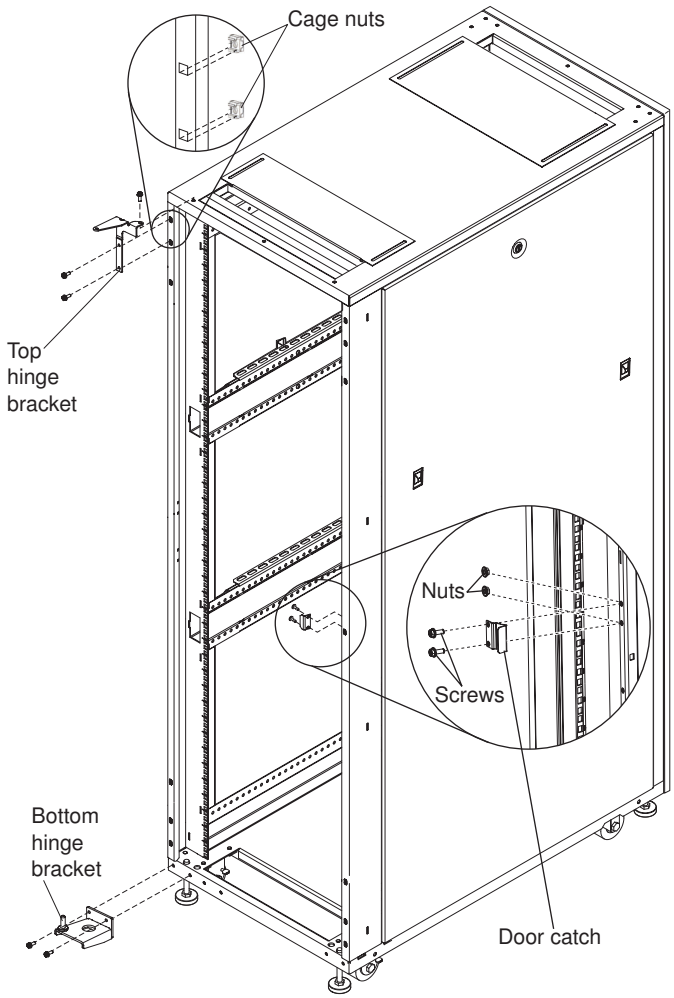

Figure 5. Installing the cage nuts, top and bottom hinge brackets, and the door catch (all rack models)

3. Align the top hinge bracket with the cage nuts in the upper left side of the rack cabinet and with the hole on the top left of the rack (see Figure 5). Use three long screws to secure the top hinge bracket to the rack cabinet.

4. Align the two holes on the bottom hinge bracket with the two holes in the bottom left side of the rack cabinet (see Figure 5 on page 6). Use two long screws to secure the bottom hinge bracket to the rack cabinet.
5. Align the door catch with the two holes in the right side of the rack cabinet (see Figure 5 on page 6). Use two short screws to secure the door catch to the rack frame. Install a nut on the end of each screw.
6. Align the air baffle and the stabilizer plate as shown in Figure 6, making sure that the holes on the left side of the air baffle and stabilizer plate align with the holes under the bottom hinge. Secure the air baffle and stabilizer plate to the rack with four long screws.

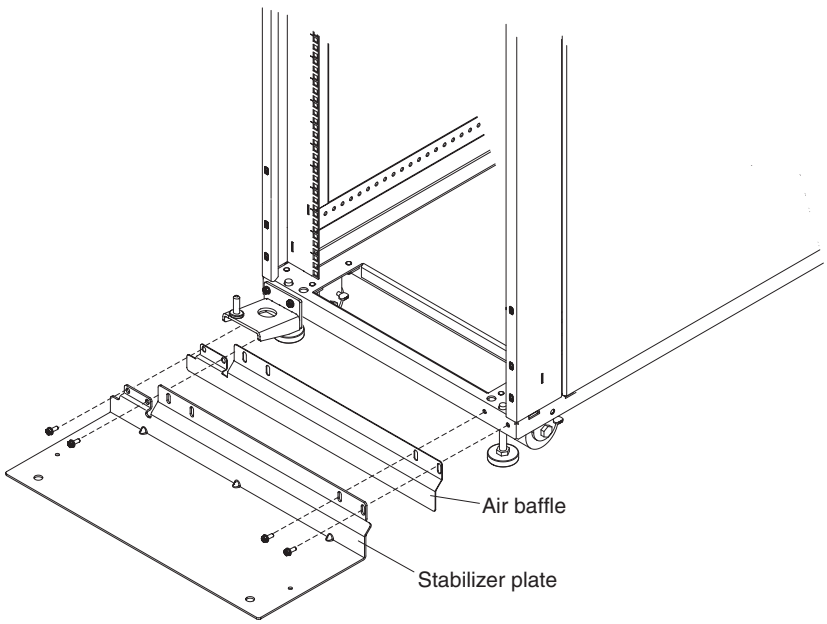

Figure 6. Installing the air baffle and stabilizer plate

7. Holding the new door firmly, align the hole in the bottom of the door with the hinge pin on the bottom hinge bracket **1** . You might have to move the door around until the pin slides into the hole in the bottom of the door.

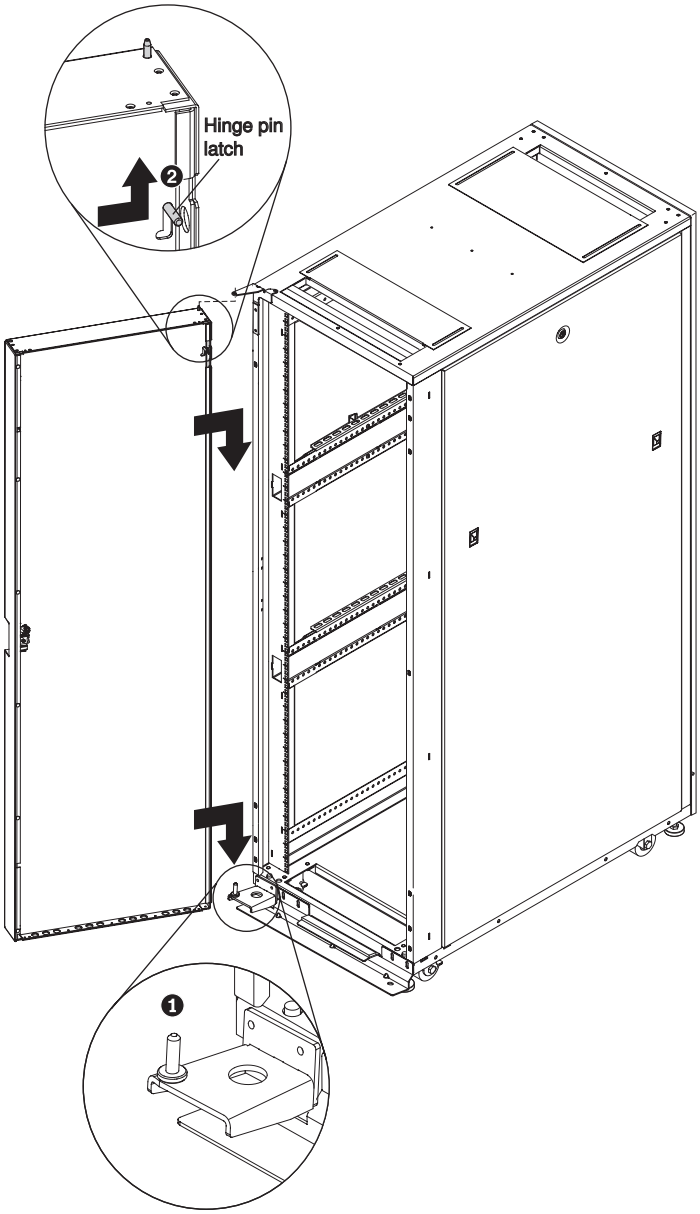

Figure 7. Installing the door on the top and bottom hinge brackets (all rack models)

8. Partially align the hinge pin at the top of the door with the hole in the top hinge bracket (see Figure 7). Push the hinge pin latch up and to the right to retract the hinge pin enough to go into the hole in the hinge bracket **2** . Move the hinge pin latch to the left and down to release the pin fully into the hole in the hinge bracket.

Installing the nameplate

To install the nameplate on the front of the new door, complete the following steps:

1. Align the nameplate with the seven pre-drilled holes on the outside of the front door.

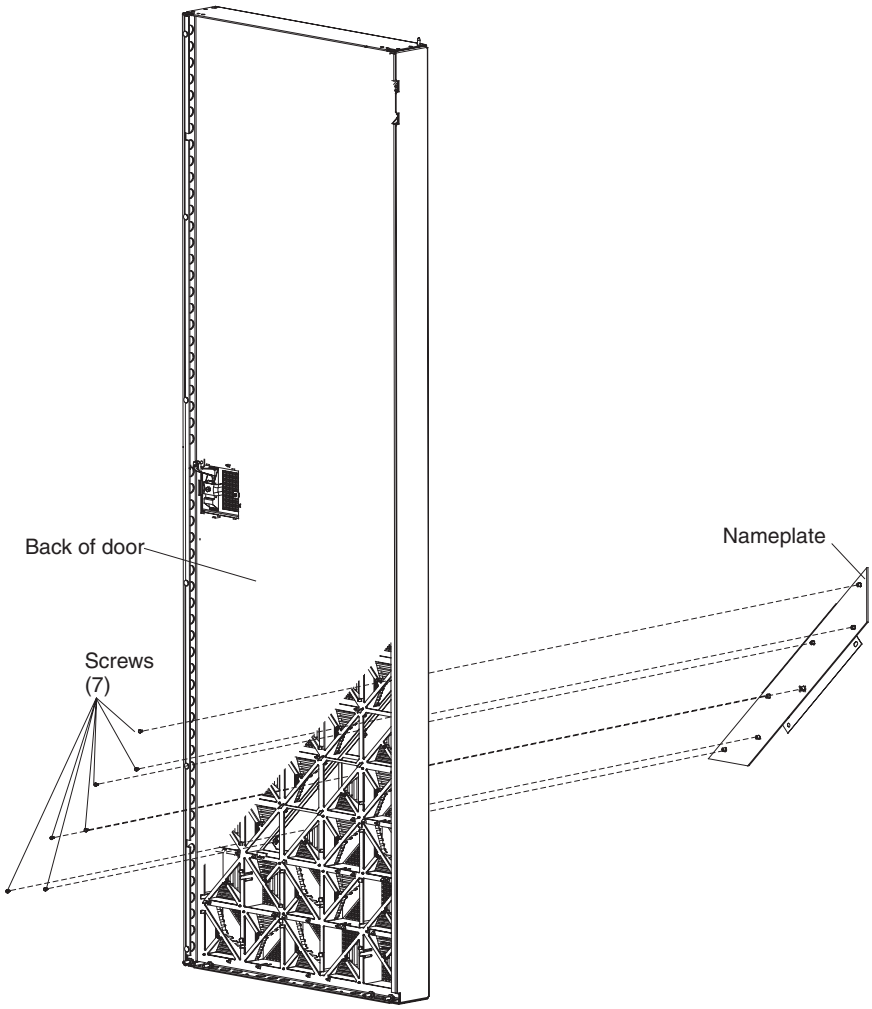

Figure 8. Installing the nameplate on the front of the new door

2. From the back (inside) of the door, use seven screws to secure the nameplate to the door.

Replaceable components

Field replaceable units (FRUs) must be replaced only by a trained service technician, unless they are classified as customer replaceable units (CRUs).

Tier 1 CRU: Replacement of Tier 1 CRUs is your responsibility. If IBM installs a Tier 1 CRU at your request without a service contract, you will be charged for the installation.

Tier 2 CRU: You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge, under the type of warranty service that is designated for your product.

For more information about the terms of the warranty and getting service and assistance, see the *Warranty Information* document that comes with the optional device.

Table 1. Field replaceable units for the IBM PureData Rack Door Kit

Description	CRU part number (Tier 1)	CRU part number (Tier 2)	FRU part number (trained service technician only)
IBM PureFlex Rack Door Kit (includes the door, hinge brackets, and nameplate)	44X3158		
Front stabilizer plate kit (includes the front stabilizer plate and front air dam)	44X3153		

Removing the IBM PureFlex Rack Door

To remove the IBM PureFlex door from the rack cabinet, complete the following steps:

1. Unlock and open the front door.
2. Holding the door firmly with one hand, push the top hinge pin latch down and to the left to release the hinge pin **1** .

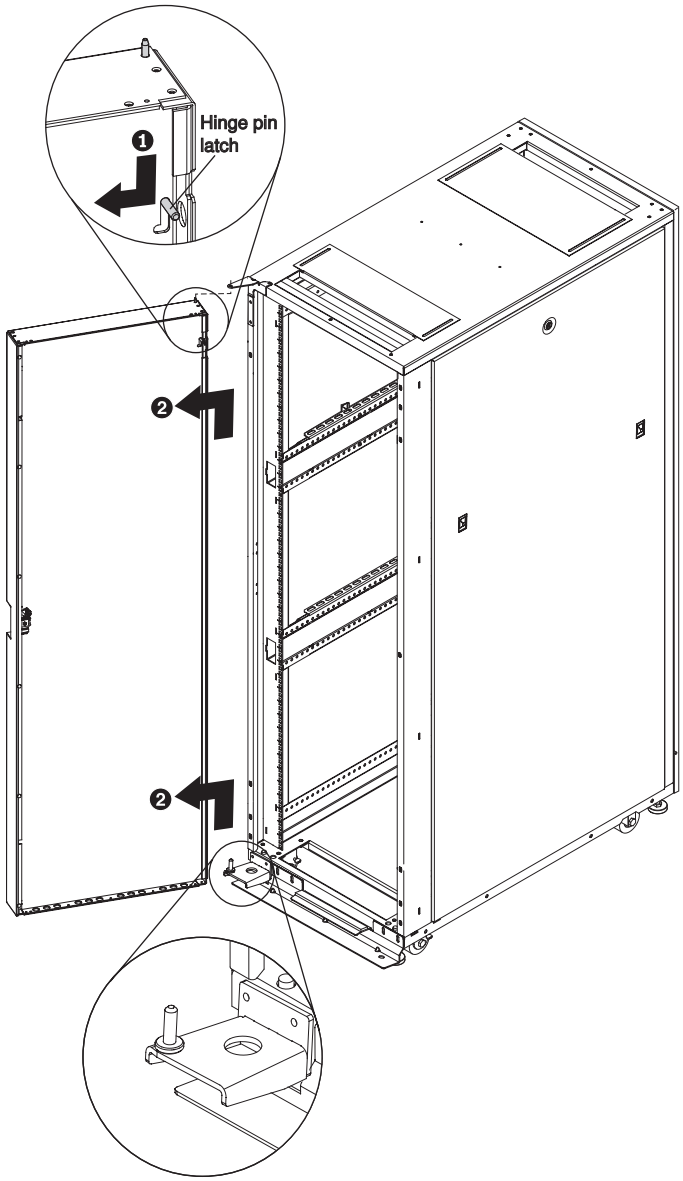

Figure 9. Removing the IBM PureFlex Rack Door

3. Grasp the door firmly with both hands and lift it up and off the bottom hinge pin and pull it away from the rack cabinet **2** ; then, set the door aside.

Getting help and technical assistance

If you need help, service, or technical assistance or just want more information about IBM products, you will find a wide variety of sources available from IBM to assist you. Use this information to obtain additional information about IBM and IBM products, determine what to do if you experience a problem with your IBM system or optional device, and determine whom to call for service, if it is necessary.

Before you call

Before you call, make sure that you have taken these steps to try to solve the problem yourself:

- Check all cables to make sure that they are connected.
- Check the power switches to make sure that the system and any optional devices are turned on.
- Check for updated firmware and operating-system device drivers for your IBM product. The IBM Warranty terms and conditions state that you, the owner of the IBM product, are responsible for maintaining and updating all software and firmware for the product (unless it is covered by an additional maintenance contract). Your IBM service technician will request that you upgrade your software and firmware if the problem has a documented solution within a software upgrade.
- If you have installed new hardware or software in your environment, check http://www.ibm.com/systems/info/x86servers/serverproven/compat/us/ to make sure that the hardware and software is supported by your IBM product.
- Go to http://www.ibm.com/supportportal/ to check for information to help you solve the problem.
- Gather the following information to provide to IBM Support. This data will help IBM Support quickly provide a solution to your problem and ensure that you receive the level of service for which you might have contracted.
  - Hardware and Software Maintenance agreement contract numbers, if applicable
  - Machine type number (IBM 4-digit machine identifier)
  - Model number
  - Serial number
  - Current system UEFI and firmware levels
  - Other pertinent information such as error messages and logs
- Go to http://www.ibm.com/support/entry/portal/Open_service_request/ to submit an Electronic Service Request. Submitting an Electronic Service Request will start the process of determining a solution to your problem by making the pertinent information available to IBM Support quickly and efficiently. IBM service technicians can start working on your solution as soon as you have completed and submitted an Electronic Service Request.

You can solve many problems without outside assistance by following the troubleshooting procedures that IBM provides in the online help or in the documentation that is provided with your IBM product. The documentation that comes with IBM systems also describes the diagnostic tests that you can perform. Most systems, operating systems, and programs come with documentation that contains troubleshooting procedures and explanations of error messages and error codes. If you suspect a software problem, see the documentation for the operating system or program.

Using the documentation

Information about your IBM system and preinstalled software, if any, or optional device is available in the documentation that comes with the product. That documentation can include printed documents, online documents, readme files, and help files. See the troubleshooting information in your system documentation for instructions for using the diagnostic programs. The troubleshooting information or the diagnostic programs might tell you that you need additional or updated device drivers or other software. IBM maintains pages on the World Wide Web where you can get the latest technical information and

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- **Standard upload with the system serial number:** http://www.ecurep.ibm.com/app/upload_hw
- **Secure upload:** http://www.ibm.com/de/support/ecurep/send_http.html#secure
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CD or DVD drive speed is the variable read rate. Actual speeds vary and are often less than the possible maximum.

When referring to processor storage, real and virtual storage, or channel volume, KB stands for 1024 bytes, MB stands for 1,048,576 bytes, and GB stands for 1,073,741,824 bytes.

When referring to hard disk drive capacity or communications volume, MB stands for 1,000,000 bytes, and GB stands for 1,000,000,000 bytes. Total user-accessible capacity can vary depending on operating environments.

Maximum internal hard disk drive capacities assume the replacement of any standard hard disk drives and population of all hard disk drive bays with the largest currently supported drives that are available from IBM.

Maximum memory might require replacement of the standard memory with an optional memory module.

Each solid-state memory cell has an intrinsic, finite number of write cycles that the cell can incur. Therefore, a solid-state device has a maximum number of write cycles that it can be subjected to, expressed as "total bytes written" (TBW). A device that has exceeded this limit might fail to respond to system-generated commands or might be incapable of being written to. IBM is not responsible for replacement of a device that has exceeded its maximum guaranteed number of program/erase cycles, as documented in the Official Published Specifications for the device.

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Table 2. Limits for particulates and gases

Contaminant	Limits
Particulate	• The room air must be continuously filtered with 40% atmospheric dust spot efficiency (MERV 9) according to ASHRAE Standard 52.2[1]. • Air that enters a data center must be filtered to 99.97% efficiency or greater, using high-efficiency particulate air (HEPA) filters that meet MIL-STD-282. • The deliquescent relative humidity of the particulate contamination must be more than 60%[2]. • The room must be free of conductive contamination such as zinc whiskers.
Gaseous	• Copper: Class G1 as per ANSI/ISA 71.04-1985[3] • Silver: Corrosion rate of less than 300 Å in 30 days

[1] ASHRAE 52.2-2008 - *Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size*. Atlanta: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

[2] The deliquescent relative humidity of particulate contamination is the relative humidity at which the dust absorbs enough water to become wet and promote ionic conduction.

[3] ANSI/ISA-71.04-1985. *Environmental conditions for process measurement and control systems: Airborne contaminants*. Instrument Society of America, Research Triangle Park, North Carolina, U.S.A.

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Class A emission compliance statement

This Class A digital apparatus complies with Canadian ICES-003.

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914-499-1900

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IBM Deutschland GmbH
Technical Regulations, Department M372
IBM-Allee 1, 71139 Ehningen, Germany
Telephone: +49 7032 15 2941
Email: lugi@de.ibm.com

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VCCI Class A statement

この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case the user may be required to take corrective actions.

Japan Electronics and Information Technology Industries Association (JEITA) statement

高調波ガイドライン適合品

Japanese Electronics and Information Technology Industries Association (JEITA) Confirmed Harmonics Guideline (products less than or equal to 20 A per phase)

Korea Communications Commission (KCC) statement

이 기기는 업무용(A급)으로 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

This is electromagnetic wave compatibility equipment for business (Type A). Sellers and users need to pay attention to it. This is for any areas other than home.

Russia Electromagnetic Interference (EMI) Class A statement

ВНИМАНИЕ! Настоящее изделие относится к классу А.
В жилых помещениях оно может создавать радиопомехи, для снижения которых необходимы дополнительные меры

People's Republic of China Class A electronic emission statement

中华人民共和国“A类”警告声明

声 明

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

Taiwan Class A compliance statement

警告使用者:
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Second Edition (November 2012)

(1P) P/N: 00D2410