



IBM DS8870, DS8884, and DS8886 offer 1.8 TB 10K rpm and 6 TB 7.2K rpm SAS encryption drives to meet data growth requirements

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At a glance

New 1.8 TB 10K and 6 TB 7.2K rpm disk drive features for IBM[®] DS8870 and DS8880 family series offer greater choices in price and performance.

Overview

IBM DS8870, DS8884, and DS8886 systems deliver additional capacity options to meet the requirements of large data growth environments.

1.8 TB 10K and 6 TB 7.2K rpm disk drives

IBM DS8870 offers 1.8 TB 10K and 6 TB 7.2K rpm disk drives to handle large amounts of data. These 1.8 TB 10K and 6 TB 7.2K rpm disk drives deliver additional price, performance, and capacity flexibility to help address specific application and business requirements.

1.8 TB 10K and 6 TB 7.2K rpm disk drives are optional to the DS8870, DS8884, and DS8886. They are available as feature numbers 5778 and 5878.

Key prerequisites

All announced features and functions are supported on the IBM DS8000[®] series and require DS8000 LMC 7.7.53.xx.xx (bundle version 87.53.xxx.xx), or later.

All announced features and functions are supported on the IBM DS8880 series and require DS8000 LMC 8.8.01.xx.xx (bundle version 88.01.xxx.xx), or later.

Planned availability date

June 10, 2016

Description

1.8 TB 10K and 6 TB 7.2K rpm drives

IBM DS8870, DS8884, and DS8886 now offer 1.8 TB 10K and 6 TB 7.2K rpm disk drive sets to provide additional price and performance options with flexible capacity to address application and business requirements. This support is in addition to the already supported 300 GB, 600 GB (15K rpm), 600 GB, 900 GB and 1.2 TB (10K rpm) SAS disk drive sets, 4 TB (7.2K rpm) nearline SAS disk drive sets, and 200, 400, 800 GB, and 1,600 GB SSD drive sets.

The 1.8 TB 10K and 6 TB 7.2K rpm disk drives sets are also offered with full disk encryption. Those drives are delivered in 4K block.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the [IBM Accessibility](#) website.

Section 508 of the US Rehabilitation Act

IIBM DS8870, IBM DS8870 Expansion Units and DS8880 storage family are capable as of October 19, 2012 and December 4, 2015, respectively, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be found on the [IBM Accessibility](#) website.

Reference information

For additional information about DS8870 2421, refer to Hardware Announcement [112-154](#), dated October 3, 2012.

For additional information about DS8870 2422, refer to Hardware Announcement [112-173](#), dated October 3, 2012.

For additional information about DS8870 2423, refer to Hardware Announcement [112-171](#), dated October 3, 2012.

For additional information about DS8870 2424, refer to Hardware Announcement [112-172](#), dated October 3, 2012.

For additional information about DS8870 Function Authorizations 239x, refer to Hardware Announcement [112-156](#), dated October 3, 2012.

For additional information about DS8880 2831, refer to Hardware Announcement [115-139](#), dated October 20, 2015.

For additional information about DS8880 2832, refer to Hardware Announcement [115-142](#), dated October 20, 2015.

For additional information about DS8880 2833, refer to Hardware Announcement [115-140](#), dated October 20, 2015.

For additional information about DS8880 2834, refer to Hardware Announcement [115-141](#), dated October 20, 2015.

Product number

Description	Machine types	Models	Feature
Encryption disk drive sets:			
- 1.8 TB 10K drive set	2421, 2422, 2423, 2424	961, 96E	5778

Description	Machine types	Models	Feature
- 6 TB 7.2K half drive set	2421, 2422, 2423, 2424	961, 96E	5878
Description	Machine types	Models	Feature
Encryption disk drive sets:			
- 1.8 TB 10K drive set	2831, 2832, 2833, 2834	980, 98E, 981, 98B	5778
- 6 TB 7.2K half drive set	2831, 2832, 2833, 2834	980, 98E, 981, 98B	5878

Feature conversions

Machine types 242x Models 961 and 96E to Machine type 242x Models 961 and 96E

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description
2421	961	5308	2421	961	5778	Yes	Disk Drive Conversion
2421	961	5618	2421	961	5778	Yes	Disk Drive Conversion
2421	961	5708	2421	961	5778	Yes	Disk Drive Conversion
2421	961	5768	2421	961	5778	Yes	Disk Drive Conversion
2421	961	5868	2421	961	5878	Yes	Disk Drive Conversion
2421	96E	5308	2421	96E	5778	Yes	Disk Drive Conversion
2421	96E	5618	2421	96E	5778	Yes	Disk Drive Conversion
2421	96E	5708	2421	96E	5778	Yes	Disk Drive Conversion
2421	96E	5768	2421	96E	5778	Yes	Disk Drive Conversion
2421	96E	5868	2421	96E	5878	Yes	Disk Drive Conversion
2422	961	5308	2422	961	5778	Yes	Disk Drive Conversion
2422	961	5618	2422	961	5778	Yes	Disk Drive Conversion
2422	961	5708	2422	961	5778	Yes	Disk Drive Conversion
2422	961	5768	2422	961	5778	Yes	Disk Drive Conversion
2422	961	5868	2422	961	5878	Yes	Disk Drive Conversion
2422	96E	5308	2422	96E	5778	Yes	Disk Drive Conversion

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description
2422	96E	5618	2422	96E	5778	Yes	Disk Drive Conversion
2422	96E	5708	2422	96E	5778	Yes	Disk Drive Conversion
2422	96E	5768	2422	96E	5778	Yes	Disk Drive Conversion
2422	96E	5868	2422	96E	5878	Yes	Disk Drive Conversion
2423	961	5308	2423	961	5778	Yes	Disk Drive Conversion
2423	961	5618	2423	961	5778	Yes	Disk Drive Conversion
2423	961	5708	2423	961	5778	Yes	Disk Drive Conversion
2423	961	5768	2423	961	5778	Yes	Disk Drive Conversion
2423	961	5868	2423	961	5878	Yes	Disk Drive Conversion
2423	96E	5308	2423	96E	5778	Yes	Disk Drive Conversion
2423	96E	5618	2423	96E	5778	Yes	Disk Drive Conversion
2423	96E	5708	2423	96E	5778	Yes	Disk Drive Conversion
2423	96E	5768	2423	96E	5778	Yes	Disk Drive Conversion
2423	96E	5868	2423	96E	5878	Yes	Disk Drive Conversion
2424	961	5308	2424	961	5778	Yes	Disk Drive Conversion
2424	961	5618	2424	961	5778	Yes	Disk Drive Conversion
2424	961	5708	2424	961	5778	Yes	Disk Drive Conversion
2424	961	5768	2424	961	5778	Yes	Disk Drive Conversion
2424	961	5868	2424	961	5878	Yes	Disk Drive Conversion
2424	96E	5308	2424	96E	5778	Yes	Disk Drive Conversion
2424	96E	5618	2424	96E	5778	Yes	Disk Drive Conversion

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description
2424	96E	5708	2424	96E	5778	Yes	Disk Drive Conversion
2424	96E	5768	2424	96E	5778	Yes	Disk Drive Conversion
2424	96E	5868	2424	96E	5878	Yes	Disk Drive Conversion

Machine types 283x Models 980, 981, 98B and 98E to Machine type 283x Models 980, 981, 98B and 98E

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description
2831	980	5308	2831	980	5778	Yes	Disk Drive Conversion
2831	980	5618	2831	980	5778	Yes	Disk Drive Conversion
2831	980	5708	2831	980	5778	Yes	Disk Drive Conversion
2831	980	5768	2831	980	5778	Yes	Disk Drive Conversion
2831	980	5868	2831	980	5878	Yes	Disk Drive Conversion
2831	98B	5308	2831	98B	5778	Yes	Disk Drive Conversion
2831	98B	5618	2831	98B	5778	Yes	Disk Drive Conversion
2831	98B	5708	2831	98B	5778	Yes	Disk Drive Conversion
2831	98B	5768	2831	98B	5778	Yes	Disk Drive Conversion
2831	98B	5868	2831	98B	5878	Yes	Disk Drive Conversion
2831	981	5308	2831	981	5778	Yes	Disk Drive Conversion
2831	981	5618	2831	981	5778	Yes	Disk Drive Conversion
2831	981	5708	2831	981	5778	Yes	Disk Drive Conversion
2831	981	5768	2831	981	5778	Yes	Disk Drive Conversion
2831	981	5868	2831	981	5878	Yes	Disk Drive Conversion
2831	98E	5308	2831	98E	5778	Yes	Disk Drive Conversion

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description
2831	98E	5618	2831	98E	5778	Yes	Disk Drive Conversion
2831	98E	5708	2831	98E	5778	Yes	Disk Drive Conversion
2831	98E	5768	2831	98E	5778	Yes	Disk Drive Conversion
2831	98E	5868	2831	98E	5878	Yes	Disk Drive Conversion
2832	980	5308	2832	980	5778	Yes	Disk Drive Conversion
2832	980	5618	2832	980	5778	Yes	Disk Drive Conversion
2832	980	5708	2832	980	5778	Yes	Disk Drive Conversion
2832	980	5768	2832	980	5778	Yes	Disk Drive Conversion
2832	980	5868	2832	980	5878	Yes	Disk Drive Conversion
2832	98B	5308	2832	98B	5778	Yes	Disk Drive Conversion
2832	98B	5618	2832	98B	5778	Yes	Disk Drive Conversion
2832	98B	5708	2832	98B	5778	Yes	Disk Drive Conversion
2832	98B	5768	2832	98B	5778	Yes	Disk Drive Conversion
2832	98B	5868	2832	98B	5878	Yes	Disk Drive Conversion
2832	981	5308	2832	981	5778	Yes	Disk Drive Conversion
2832	981	5618	2832	981	5778	Yes	Disk Drive Conversion
2832	981	5708	2832	981	5778	Yes	Disk Drive Conversion
2832	981	5768	2832	981	5778	Yes	Disk Drive Conversion
2832	981	5868	2832	981	5878	Yes	Disk Drive Conversion
2832	98E	5308	2832	98E	5778	Yes	Disk Drive Conversion
2832	98E	5618	2832	98E	5778	Yes	Disk Drive Conversion

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description
2832	98E	5708	2832	98E	5778	Yes	Disk Drive Conversion
2832	98E	5768	2832	98E	5778	Yes	Disk Drive Conversion
2832	98E	5868	2832	98E	5878	Yes	Disk Drive Conversion
2833	980	5308	2833	980	5778	Yes	Disk Drive Conversion
2833	980	5618	2833	980	5778	Yes	Disk Drive Conversion
2833	980	5708	2833	980	5778	Yes	Disk Drive Conversion
2833	980	5768	2833	980	5778	Yes	Disk Drive Conversion
2833	980	5868	2833	980	5878	Yes	Disk Drive Conversion
2833	98B	5308	2833	98B	5778	Yes	Disk Drive Conversion
2833	98B	5618	2833	98B	5778	Yes	Disk Drive Conversion
2833	98B	5708	2833	98B	5778	Yes	Disk Drive Conversion
2833	98B	5768	2833	98B	5778	Yes	Disk Drive Conversion
2833	98B	5868	2833	98B	5878	Yes	Disk Drive Conversion
2833	981	5308	2833	981	5778	Yes	Disk Drive Conversion
2833	981	5618	2833	981	5778	Yes	Disk Drive Conversion
2833	981	5708	2833	981	5778	Yes	Disk Drive Conversion
2833	981	5768	2833	981	5778	Yes	Disk Drive Conversion
2833	981	5868	2833	981	5878	Yes	Disk Drive Conversion
2833	98E	5308	2833	98E	5778	Yes	Disk Drive Conversion
2833	98E	5618	2833	98E	5778	Yes	Disk Drive Conversion
2833	98E	5708	2833	98E	5778	Yes	Disk Drive Conversion

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description
2833	98E	5768	2833	98E	5778	Yes	Disk Drive Conversion
2833	98E	5868	2833	98E	5878	Yes	Disk Drive Conversion
2834	980	5308	2834	980	5778	Yes	Disk Drive Conversion
2834	980	5618	2834	980	5778	Yes	Disk Drive Conversion
2834	980	5708	2834	980	5778	Yes	Disk Drive Conversion
2834	980	5768	2834	980	5778	Yes	Disk Drive Conversion
2834	980	5868	2834	980	5878	Yes	Disk Drive Conversion
2834	98B	5308	2834	98B	5778	Yes	Disk Drive Conversion
2834	98B	5618	2834	98B	5778	Yes	Disk Drive Conversion
2834	98B	5708	2834	98B	5778	Yes	Disk Drive Conversion
2834	98B	5768	2834	98B	5778	Yes	Disk Drive Conversion
2834	98B	5868	2834	98B	5878	Yes	Disk Drive Conversion
2834	981	5308	2834	981	5778	Yes	Disk Drive Conversion
2834	981	5618	2834	981	5778	Yes	Disk Drive Conversion
2834	981	5708	2834	981	5778	Yes	Disk Drive Conversion
2834	981	5768	2834	981	5778	Yes	Disk Drive Conversion
2834	981	5868	2834	981	5878	Yes	Disk Drive Conversion
2834	98E	5308	2834	98E	5778	Yes	Disk Drive Conversion
2834	98E	5618	2834	98E	5778	Yes	Disk Drive Conversion
2834	98E	5708	2834	98E	5778	Yes	Disk Drive Conversion
2834	98E	5768	2834	98E	5778	Yes	Disk Drive Conversion

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description
2834	98E	5868	2834	98E	5878	Yes	Disk Drive Conversion

* Parts removed as a result of a feature conversion become the property of IBM.

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld^(R) ID and password are required (use IBM ID).

[BP Attachment for Announcement Letter 116-043](#)

Publications

DS8000 publications are available at the [IBM Publications Center](#).

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website.

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or go to the <http://www.ibm.com/services/> website.

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or go to the [Resiliency Services](#) website.

Details on education offerings related to specific products can be found on the [IBM authorized training](#) website.

Technical information

Specified operating environment

Hardware requirements

Licensed Machine Code

All announced features and functions are supported on the IBM System Storage[®] DS8000 series and require DS8000 LMC 7.7.53.xx.xx (bundle version 87.53.xxx.xx), or later.

All announced features and functions are supported on the IBM DS8880 series and require DS8000 LMC 8.8.01.xx.xx (bundle version 88.01.xxx.xx), or later.

Some DS8000 series features and functions may not be available or supported in all environments. Current information on supported environments, prerequisites, and minimum operating system levels is available at the [IBM System Storage Interoperation Center](#).

Planning information

Customer responsibilities

Physical configuration planning

Physical configuration planning is a customer responsibility. A marketing specialist can help plan and select the DS8000 series physical configuration and features. Introductory information, including required and optional features, can be found in the *IBM DS8870 Introduction and Planning Guide (GC27-4209)* and *IBM DS8880 Introduction and Planning Guide (GC27-8525)*.

Capacity and performance planning assistance is also available. Through the use of Disk Magic, a disk marketing specialist can help plan and anticipate performance characteristics for specific workloads by modeling proposed configurations.

Installation planning

Installation planning is a customer responsibility. Information about planning the installation of a DS8000 series, including equipment, site, and power requirements, can be found in the *IBM DS8870 Introduction and Planning Guide (GC27-4209)* and *IBM DS8880 Introduction and Planning Guide (GC27-8525)*.

Logical configuration planning and application

Logical configuration planning is a customer responsibility. Logical configuration refers to the creation of RAID ranks, volumes, and LUNs, and the assignment of the configured capacity to servers.

Application of the initial logical configuration and all subsequent modifications to the logical configuration is a customer responsibility. The logical configuration can be created, applied, and modified using the DS Storage Manager, DS CLI, or DS Open API.

IBM Global Services can also apply or modify the logical configuration (fee-based service).

Licensed Machine Code planning and application

IBM may release changes to the DS8000 series Licensed Machine Code. IBM plans to make the most current DS8000 series Licensed Machine Code changes available for download by the DS8000 series system from the IBM System Storage technical support website. Not all Licensed Machine Code changes may be available through the support website. If the machine does not function as warranted and a

problem can be resolved through the application of downloadable Licensed Machine Code, the customer is responsible for downloading and installing these designated Licensed Machine Code changes as IBM specifies. IBM has responsibility for installing changes that IBM does not make available for you to download. The DS8000 series includes many enhancements to make the Licensed Machine Code change process simpler, quicker, and more automated. A request can be made for IBM to install downloadable Licensed Machine Code changes, however there may be a charge for that service.

Calculating physical and effective capacity

Refer to the *IBM DS8870 Introduction and Planning Guide (GC27-4209)* and *IBM DS8880 Introduction and Planning Guide (GC27-8525)* for capacity calculation guidelines.

You are responsible for downloading or obtaining from IBM, and installing designated Machine Code (microcode, basic input/output system code (called BIOS), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet website or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

Cable orders

No cables required

Security, auditability, and control

This product uses the security and auditability features of the host hardware, host software, and application software to which it is attached.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, go to the [IBM Electronic Support](#) website.

Terms and conditions

MES discount applicable

No

Field installable feature

Yes

Warranty period

Machine types 2421 and 2831: One year

Machine types 2422 and 2832: Two years

Machine types 2423 and 2833: Three years

Machine types 2424 and 2834: Four years

This product is provided with one year of standard warranty and additional years of extended warranty services to make these offerings.

Customers should consult with their financial personnel on the appropriate financial treatment for this offering.

Customer setup

No

Licensed Internal Code

Same license terms and conditions as designated machine.

Prices

Description	Machine types	Models	Feature numbers			
Encryption disk drive sets:						
- 1.8 TB 10K drive set	2421, 2422, 2423, 2424	961, 96E	5778			
- 6 TB 7.2K half drive set	2421, 2422, 2423, 2424	961, 96E	5878			
Description	Machine types	Models	Feature numbers			
Encryption disk drive sets:						
- 1.8 TB 10K drive set	2831, 2832, 2833, 2834	980, 98E, 981, 98B	5778			
- 6 TB 7.2K half drive set	2831, 2832, 2833, 2834	980, 98E, 981, 98B	5878			
Description	Feature number	Install type	Feature conversion	Feature exchange	Feature remove	CSU
Encryption disk drive sets:						
- 1.8 TB 10K drive set	5778	Both	No	No	Yes	No
- 6 TB 7.2K half drive set	5878	Both	No	No	Yes	No

* Parts removed or replaced become the property of IBM and must be returned.

- Feature Conversion: As necessary, IBM service personnel will remove components from the machine and/or install additional components required to complete the conversion.
- Feature Remove: This is an administrative transaction and only updates IBM machine and inventory records, except under the following condition:
 - IBM will remove components from the machine if the Feature Remove is ordered in conjunction with a Feature Add transaction.

Feature conversion purchase price

Feature conversions

Machine types 242x Models 961 and 96E to Machine type 242x Models 961 and 96E

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description	Continuous maintenance
2421	961	5308	2421	961	5778	Yes	Disk Drive Conversion	Yes
2421	961	5618	2421	961	5778	Yes	Disk Drive Conversion	Yes
2421	961	5708	2421	961	5778	Yes	Disk Drive Conversion	Yes
2421	961	5768	2421	961	5778	Yes	Disk Drive Conversion	Yes
2421	961	5868	2421	961	5878	Yes	Disk Drive Conversion	Yes
2421	96E	5308	2421	96E	5778	Yes	Disk Drive Conversion	Yes
2421	96E	5618	2421	96E	5778	Yes	Disk Drive Conversion	Yes
2421	96E	5708	2421	96E	5778	Yes	Disk Drive Conversion	Yes
2421	96E	5768	2421	96E	5778	Yes	Disk Drive Conversion	Yes
2421	96E	5868	2421	96E	5878	Yes	Disk Drive Conversion	Yes
2422	961	5308	2422	961	5778	Yes	Disk Drive Conversion	Yes
2422	961	5618	2422	961	5778	Yes	Disk Drive Conversion	Yes
2422	961	5708	2422	961	5778	Yes	Disk Drive Conversion	Yes
2422	961	5768	2422	961	5778	Yes	Disk Drive Conversion	Yes
2422	961	5868	2422	961	5878	Yes	Disk Drive Conversion	Yes

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description	Continuous maintenance
2422	96E	5308	2422	96E	5778	Yes	Disk Drive Conversion	Yes
2422	96E	5618	2422	96E	5778	Yes	Disk Drive Conversion	Yes
2422	96E	5708	2422	96E	5778	Yes	Disk Drive Conversion	Yes
2422	96E	5768	2422	96E	5778	Yes	Disk Drive Conversion	Yes
2422	96E	5868	2422	96E	5878	Yes	Disk Drive Conversion	Yes
2423	961	5308	2423	961	5778	Yes	Disk Drive Conversion	Yes
2423	961	5618	2423	961	5778	Yes	Disk Drive Conversion	Yes
2423	961	5708	2423	961	5778	Yes	Disk Drive Conversion	Yes
2423	961	5768	2423	961	5778	Yes	Disk Drive Conversion	Yes
2423	961	5868	2423	961	5878	Yes	Disk Drive Conversion	Yes
2423	96E	5308	2423	96E	5778	Yes	Disk Drive Conversion	Yes
2423	96E	5618	2423	96E	5778	Yes	Disk Drive Conversion	Yes
2423	96E	5708	2423	96E	5778	Yes	Disk Drive Conversion	Yes
2423	96E	5768	2423	96E	5778	Yes	Disk Drive Conversion	Yes
2423	96E	5868	2423	96E	5878	Yes	Disk Drive Conversion	Yes
2424	961	5308	2424	961	5778	Yes	Disk Drive Conversion	Yes
2424	961	5618	2424	961	5778	Yes	Disk Drive Conversion	Yes
2424	961	5708	2424	961	5778	Yes	Disk Drive Conversion	Yes
2424	961	5768	2424	961	5778	Yes	Disk Drive Conversion	Yes
2424	961	5868	2424	961	5878	Yes	Disk Drive Conversion	Yes
2424	96E	5308	2424	96E	5778	Yes	Disk Drive Conversion	Yes

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description	Continuous maintenance
2424	96E	5618	2424	96E	5778	Yes	Disk Drive Conversion	Yes
2424	96E	5708	2424	96E	5778	Yes	Disk Drive Conversion	Yes
2424	96E	5768	2424	96E	5778	Yes	Disk Drive Conversion	Yes
2424	96E	5868	2424	96E	5878	Yes	Disk Drive Conversion	Yes

Machine types 283x Models 980, 981, 98B and 98E to Machine type 283x Models 980, 981, 98B and 98E

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description	Continuous maintenance
2831	980	5308	2831	980	5778	Yes	Disk Drive Conversion	Yes
2831	980	5618	2831	980	5778	Yes	Disk Drive Conversion	Yes
2831	980	5708	2831	980	5778	Yes	Disk Drive Conversion	Yes
2831	980	5768	2831	980	5778	Yes	Disk Drive Conversion	Yes
2831	980	5868	2831	980	5878	Yes	Disk Drive Conversion	Yes
2831	98B	5308	2831	98B	5778	Yes	Disk Drive Conversion	Yes
2831	98B	5618	2831	98B	5778	Yes	Disk Drive Conversion	Yes
2831	98B	5708	2831	98B	5778	Yes	Disk Drive Conversion	Yes
2831	98B	5768	2831	98B	5778	Yes	Disk Drive Conversion	Yes
2831	98B	5868	2831	98B	5878	Yes	Disk Drive Conversion	Yes
2831	981	5308	2831	981	5778	Yes	Disk Drive Conversion	Yes
2831	981	5618	2831	981	5778	Yes	Disk Drive Conversion	Yes
2831	981	5708	2831	981	5778	Yes	Disk Drive Conversion	Yes
2831	981	5768	2831	981	5778	Yes	Disk Drive Conversion	Yes
2831	981	5868	2831	981	5878	Yes	Disk Drive Conversion	Yes

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description	Continuous maintenance
2831	98E	5308	2831	98E	5778	Yes	Disk Drive Conversion	Yes
2831	98E	5618	2831	98E	5778	Yes	Disk Drive Conversion	Yes
2831	98E	5708	2831	98E	5778	Yes	Disk Drive Conversion	Yes
2831	98E	5768	2831	98E	5778	Yes	Disk Drive Conversion	Yes
2831	98E	5868	2831	98E	5878	Yes	Disk Drive Conversion	Yes
2832	980	5308	2832	980	5778	Yes	Disk Drive Conversion	Yes
2832	980	5618	2832	980	5778	Yes	Disk Drive Conversion	Yes
2832	980	5708	2832	980	5778	Yes	Disk Drive Conversion	Yes
2832	980	5768	2832	980	5778	Yes	Disk Drive Conversion	Yes
2832	980	5868	2832	980	5878	Yes	Disk Drive Conversion	Yes
2832	98B	5308	2832	98B	5778	Yes	Disk Drive Conversion	Yes
2832	98B	5618	2832	98B	5778	Yes	Disk Drive Conversion	Yes
2832	98B	5708	2832	98B	5778	Yes	Disk Drive Conversion	Yes
2832	98B	5768	2832	98B	5778	Yes	Disk Drive Conversion	Yes
2832	98B	5868	2832	98B	5878	Yes	Disk Drive Conversion	Yes
2832	981	5308	2832	981	5778	Yes	Disk Drive Conversion	Yes
2832	981	5618	2832	981	5778	Yes	Disk Drive Conversion	Yes
2832	981	5708	2832	981	5778	Yes	Disk Drive Conversion	Yes
2832	981	5768	2832	981	5778	Yes	Disk Drive Conversion	Yes
2832	981	5868	2832	981	5878	Yes	Disk Drive Conversion	Yes
2832	98E	5308	2832	98E	5778	Yes	Disk Drive Conversion	Yes

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description	Continuous maintenance
2832	98E	5618	2832	98E	5778	Yes	Disk Drive Conversion	Yes
2832	98E	5708	2832	98E	5778	Yes	Disk Drive Conversion	Yes
2832	98E	5768	2832	98E	5778	Yes	Disk Drive Conversion	Yes
2832	98E	5868	2832	98E	5878	Yes	Disk Drive Conversion	Yes
2833	980	5308	2833	980	5778	Yes	Disk Drive Conversion	Yes
2833	980	5618	2833	980	5778	Yes	Disk Drive Conversion	Yes
2833	980	5708	2833	980	5778	Yes	Disk Drive Conversion	Yes
2833	980	5768	2833	980	5778	Yes	Disk Drive Conversion	Yes
2833	980	5868	2833	980	5878	Yes	Disk Drive Conversion	Yes
2833	98B	5308	2833	98B	5778	Yes	Disk Drive Conversion	Yes
2833	98B	5618	2833	98B	5778	Yes	Disk Drive Conversion	Yes
2833	98B	5708	2833	98B	5778	Yes	Disk Drive Conversion	Yes
2833	98B	5768	2833	98B	5778	Yes	Disk Drive Conversion	Yes
2833	98B	5868	2833	98B	5878	Yes	Disk Drive Conversion	Yes
2833	981	5308	2833	981	5778	Yes	Disk Drive Conversion	Yes
2833	981	5618	2833	981	5778	Yes	Disk Drive Conversion	Yes
2833	981	5708	2833	981	5778	Yes	Disk Drive Conversion	Yes
2833	981	5768	2833	981	5778	Yes	Disk Drive Conversion	Yes
2833	981	5868	2833	981	5878	Yes	Disk Drive Conversion	Yes
2833	98E	5308	2833	98E	5778	Yes	Disk Drive Conversion	Yes
2833	98E	5618	2833	98E	5778	Yes	Disk Drive Conversion	Yes

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description	Continuous maintenance
2833	98E	5708	2833	98E	5778	Yes	Disk Drive Conversion	Yes
2833	98E	5768	2833	98E	5778	Yes	Disk Drive Conversion	Yes
2833	98E	5868	2833	98E	5878	Yes	Disk Drive Conversion	Yes
2834	980	5308	2834	980	5778	Yes	Disk Drive Conversion	Yes
2834	980	5618	2834	980	5778	Yes	Disk Drive Conversion	Yes
2834	980	5708	2834	980	5778	Yes	Disk Drive Conversion	Yes
2834	980	5768	2834	980	5778	Yes	Disk Drive Conversion	Yes
2834	980	5868	2834	980	5878	Yes	Disk Drive Conversion	Yes
2834	98B	5308	2834	98B	5778	Yes	Disk Drive Conversion	Yes
2834	98B	5618	2834	98B	5778	Yes	Disk Drive Conversion	Yes
2834	98B	5708	2834	98B	5778	Yes	Disk Drive Conversion	Yes
2834	98B	5768	2834	98B	5778	Yes	Disk Drive Conversion	Yes
2834	98B	5868	2834	98B	5878	Yes	Disk Drive Conversion	Yes
2834	981	5308	2834	981	5778	Yes	Disk Drive Conversion	Yes
2834	981	5618	2834	981	5778	Yes	Disk Drive Conversion	Yes
2834	981	5708	2834	981	5778	Yes	Disk Drive Conversion	Yes
2834	981	5768	2834	981	5778	Yes	Disk Drive Conversion	Yes
2834	981	5868	2834	981	5878	Yes	Disk Drive Conversion	Yes
2834	98E	5308	2834	98E	5778	Yes	Disk Drive Conversion	Yes
2834	98E	5618	2834	98E	5778	Yes	Disk Drive Conversion	Yes
2834	98E	5708	2834	98E	5778	Yes	Disk Drive Conversion	Yes

From Machine type	Model	From feature	To Machine type	Model	To feature	Returned parts*	Description	Continuous maintenance
2834	98E	5768	2834	98E	5778	Yes	Disk Drive Conversion	Yes
2834	98E	5868	2834	98E	5878	Yes	Disk Drive Conversion	Yes

* Parts removed or replaced become the property of IBM and must be returned.

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