



IBM Ultrium 7 6 TB Data Cartridge models 551, 651, 571, and 671 deliver twice the capacity of previous generation LTO Ultrium cartridges

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At a glance

IBM[®] 3589 Ultrium[™] Tape Cartridges provide the ability to order IBM Ultrium 7 6 TB Data Cartridge with the following features:

- Color-coding and prelabeling with the ability to specify a starting volume serial to help save time and labor when adding new cartridges into existing inventory
- Individual jewel cases or bulk packaging
- Cartridge memory built into every data cartridge to help enhance functionality and media reliability by storing access history and media performance information for use by the tape drive every time the cartridge is accessed
- Half-inch particle tape with a 6 TB native capacity in a single cartridge

Order now

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

IBM Ultrium 7 6 TB Data Cartridge delivers flexibility in the specification and ordering of prelabeled and bulk packaged data cartridges for the IBM LTO[™] Ultrium family of products. Shipping with or without jewel cases can also be specified when prelabeled cartridges are ordered.

Ultrium tape format is the implementation of the Linear Tape-Open[™] (LTO) technology that is designed to provide high capacity and performance with exceptional reliability in either a stand-alone or an automated environment. It uses a single-reel cartridge and is ideal for large volume backup, restore, and archive applications.

New models of the 3589 are available to be ordered with the IBM Ultrium 7 6 TB Data Cartridge. The Ultrium 7 6 TB format is based on LTO technology and delivers tape cartridge capacity up to 6 TB native physical capacity (15 TB with 2.5:1 compression). These cartridges can be used in IBM LTO Ultrium 7 Tape Drives, the seventh generation LTO Ultrium Tape Drive in the IBM LTO Ultrium family of products. You can choose from the following models:

- Model 551 - IBM Ultrium 7 6 TB Data Cartridge, labeled with starting volume serial information and optionally packed in individual jewel cases
- Model 651 - IBM Ultrium 7 6 TB Data Cartridge, packed in individual jewel cases with two nonattached blank labels
- Model 571 - IBM Ultrium 7 6 TB Data Cartridge, labeled with starting volume serial information and optionally packed in jewel cases, are designed to provide WORM storage on a 6 TB capacity cartridge
- Model 671 - IBM Ultrium 7 6 TB Data Cartridge, packed in jewel cases with two nonattached blank labels, are also designed to provide WORM storage on a 6 TB capacity cartridge

RFID labeled Ultrium 7 media is available as optional feature codes.

A new Ultrium LTO 7 5-pack plain data cartridge option is also available.

Key prerequisites

This product is only for use with Ultrium 7 Tape Drives.

Planned availability date

November 20, 2015

Description

The 3589 Ultrium Tape Cartridge provides the ability to order pre-labeled or bulk-packaged IBM Ultrium 7 6 TB Data Cartridges, IBM Ultrium Cleaning Cartridges, and IBM Ultrium 6 TB Tape Cartridges.

The 3589 models (551 and 651) and WORM Cartridges models (571 and 671) double the tape cartridge capacity with up to 6 TB native capacity (15 TB with 2.5:1 compression). These cartridges can be used in IBM LTO Ultrium 7 Tape Drives, the seventh generation LTO Ultrium Tape Drive in the IBM LTO Ultrium family of products:

- Model 551 - IBM Ultrium 7 6 TB Data Cartridges in a 20-pack are labeled with starting volume serial information and optionally packed in individual jewel cases
- Model 651 - IBM Ultrium 7 6 TB Data Cartridges in a 20-pack are optionally packed in individual jewel cases with two nonattached blank labels
- Model 571 - IBM Ultrium 7 6 TB WORM Tape Cartridges in a 20-pack are labeled with starting volume serial information and optionally packed in individual jewel cases
- Model 671 - IBM Ultrium 7 6 TB WORM Tape Cartridges in a 20-pack are optionally packed in individual jewel cases with two nonattached blank labels

Features of the IBM Ultrium 7 6 TB Data Cartridge include:

- 6 TB native capacity in a single compact cartridge
- Cartridge memory built into every data cartridge for enhanced functionality and media reliability by storing access history and media performance information for use by the tape drive every time the cartridge is accessed
- Color coding and prelabeling with the ability to specify a starting volume serial saves time and labor when adding new cartridges into your existing inventory
- Shipping without jewel cases unless otherwise specified, when pre-labeled cartridges are ordered
- New optional Ultrium LTO 7 5-pack plain data cartridge

Note: For optimum reliability, use IBM 3589 Ultrium Tape Cartridges which conform to IBM specifications.

Additional product information and deliverables can be found on the IBM TotalStorage Storage Media website

<http://www.ibm.com/servers/storage/media>

Reference information

For complete details about LTO Ultrium 7 family of products, refer to the following announcements:

- IBM TS4500 Tape Library supports LTO Ultrium 7 Hardware Announcement [115-129](#), dated October 6, 2015
- IBM TS3500 Tape Library supports LTO Ultrium 7 Hardware Announcement [115-133](#), dated October 6, 2015
- IBM TS2270 Tape Drive model H7S Hardware Announcement [115-136](#), dated October 6, 2015.
- IBM TS2900 Tape Autoloader model S7H Hardware Announcement [115-131](#), dated October 6, 2015
- IBM TS3100/TS3200 Tape Libraries Hardware Announcement [115-132](#), dated October 6, 2015
- IBM TS3310 Tape Library Hardware Announcement [115-130](#), dated October 6, 2015

Product number

Description	Machine type	Model	Feature number
6 TB Ultrium 7 Tape Cartridge 20-pack Labeled	3589	551	
6 TB Ultrium 7 Tape Cartridge	3589	651	
6 TB Ultrium 7 WORM Tape Cartridge 20-pack Labeled	3589	571	
6 TB Ultrium 7 WORM Tape Cartridge 20-pack	3589	671	
TAA Compliance	3589	551, 651, 571, 671	0983 *
6 TB Ultrium 7 Tape Cart Labeled 20-pack	3589	551	5501
6 TB Ultrium 7 Tape RFID Labeled 20-pack	3589	551	5511
6 TB Ultrium 7 Tape Cartridge 20-pack	3589	651	6501
6 TB Ultrium 7 Tape Cartridge 5-pack	3589	651	6505
6 TB Ultrium 7 WORM Tape Cartridge 20-pack Labeled	3589	571	5701
6 TB Ultrium 7 WORM RFID Labeled 20-pack	3589	571	5711
6 TB Ultrium 7 WORM Tape Cartridge 20-pack	3589	671	6701

Description	Machine type	Model	Feature number
Jewel Case	3589	551, 651, 571, 671	8000 *
Alpha prefix bkgrd - red	3589	551, 571	9003 *
Alpha prefix bkgrd - yellow	3589	551, 571	9004 *
Alpha prefix bkgrd - lt green	3589	551, 571	9005 *
Alpha prefix bkgrd - lt blue	3589	551, 571	9006 *
Alpha prefix bkgrd - gray	3589	551, 571	9007 *
Alpha prefix bkgrd - orange	3589	551, 571	9008 *
Alpha prefix bkgrd - pink	3589	551, 571	9009 *
Alpha prefix bkgrd - green	3589	551, 571	9010 *
Alpha prefix bkgrd - lt orange	3589	551, 571	9011 *
Alpha prefix bkgrd - purple	3589	551, 571	9012 *
Label background: Color/Vibrant	3589	551, 571	9022 *
Label bkgrd: White (no color)	3589	551, 571	9077 *
1st char of VOLSER =0	3589	551, 571	9100 *
1st char of VOLSER =1	3589	551, 571	9101 *
1st char of VOLSER =2	3589	551, 571	9102 *
1st char of VOLSER =3	3589	551, 571	9103 *
1st char of VOLSER =4	3589	551, 571	9104 *
1st char of VOLSER =5	3589	551, 571	9105 *
1st char of VOLSER =6	3589	551, 571	9106 *
1st char of VOLSER =7	3589	551, 571	9107 *
1st char of VOLSER =8	3589	551, 571	9108 *
1st char of VOLSER =9	3589	551, 571	9109 *
1st char of VOLSER =A	3589	551, 571	9110 *
1st char of VOLSER =B	3589	551, 571	9111 *
1st char of VOLSER =C	3589	551, 571	9112 *
1st char of VOLSER =D	3589	551, 571	9113 *
1st char of VOLSER =E	3589	551, 571	9114 *
1st char of VOLSER =F	3589	551, 571	9115 *
1st char of VOLSER =G	3589	551, 571	9116 *
1st char of VOLSER =H	3589	551, 571	9117 *

Description	Machine type	Model	Feature number
1st char of VOLSER =I	3589	551, 571	9118 *
1st char of VOLSER =J	3589	551, 571	9119 *
1st char of VOLSER =K	3589	551, 571	9120 *
1st char of VOLSER =L	3589	551, 571	9121 *
1st char of VOLSER =M	3589	551, 571	9122 *
1st char of VOLSER =N	3589	551, 571	9123 *
1st char of VOLSER =O	3589	551, 571	9124 *
1st char of VOLSER =P	3589	551, 571	9125 *
1st char of VOLSER =Q	3589	551, 571	9126 *
1st char of VOLSER =R	3589	551, 571	9127 *
1st char of VOLSER =S	3589	551, 571	9128 *
1st char of VOLSER =T	3589	551, 571	9129 *
1st char of VOLSER =U	3589	551, 571	9130 *
1st char of VOLSER =V	3589	551, 571	9131 *
1st char of VOLSER =W	3589	551, 571	9132 *
1st char of VOLSER =X	3589	551, 571	9133 *
1st char of VOLSER =Y	3589	551, 571	9134 *
1st char of VOLSER =Z	3589	551, 571	9135 *
2nd char of VOLSER =0	3589	551, 571	9200 *
2nd char of VOLSER =1	3589	551, 571	9201 *
2nd char of VOLSER =2	3589	551, 571	9202 *
2nd char of VOLSER =3	3589	551, 571	9203 *
2nd char of VOLSER =4	3589	551, 571	9204 *
2nd char of VOLSER =5	3589	551, 571	9205 *
2nd char of VOLSER =6	3589	551, 571	9206 *
2nd char of VOLSER =7	3589	551, 571	9207 *
2nd char of VOLSER =8	3589	551, 571	9208 *
2nd char of VOLSER =9	3589	551, 571	9209 *
2nd char of VOLSER =A	3589	551, 571	9210 *
2nd char of VOLSER =B	3589	551, 571	9211 *
2nd char of VOLSER =C	3589	551, 571	9212 *

Description	Machine type	Model	Feature number
2nd char of VOLSER =D	3589	551, 571	9213 *
2nd char of VOLSER =E	3589	551, 571	9214 *
2nd char of VOLSER =F	3589	551, 571	9215 *
2nd char of VOLSER =G	3589	551, 571	9216 *
2nd char of VOLSER =H	3589	551, 571	9217 *
2nd char of VOLSER =I	3589	551, 571	9218 *
2nd char of VOLSER =J	3589	551, 571	9219 *
2nd char of VOLSER =K	3589	551, 571	9220 *
2nd char of VOLSER =L	3589	551, 571	9221 *
2nd char of VOLSER =M	3589	551, 571	9222 *
2nd char of VOLSER =N	3589	551, 571	9223 *
2nd char of VOLSER =O	3589	551, 571	9224 *
2nd char of VOLSER =P	3589	551, 571	9225 *
2nd char of VOLSER =Q	3589	551, 571	9226 *
2nd char of VOLSER =R	3589	551, 571	9227 *
2nd char of VOLSER =S	3589	551, 571	9228 *
2nd char of VOLSER =T	3589	551, 571	9229 *
2nd char of VOLSER =U	3589	551, 571	9230 *
2nd char of VOLSER =V	3589	551, 571	9231 *
2nd char of VOLSER =W	3589	551, 571	9232 *
2nd char of VOLSER =X	3589	551, 571	9233 *
2nd char of VOLSER =Y	3589	551, 571	9234 *
2nd char of VOLSER =Z	3589	551, 571	9235 *
3rd char of VOLSER =0	3589	551, 571	9300 *
3rd char of VOLSER =1	3589	551, 571	9301 *
3rd char of VOLSER =2	3589	551, 571	9302 *
3rd char of VOLSER =3	3589	551, 571	9303 *
3rd char of VOLSER =4	3589	551, 571	9304 *
3rd char of VOLSER =5	3589	551, 571	9305 *
3rd char of VOLSER =6	3589	551, 571	9306 *
3rd char of VOLSER =7	3589	551, 571	9307 *

Description	Machine type	Model	Feature number
3rd char of VOLSER =8	3589	551, 571	9308 *
3rd char of VOLSER =9	3589	551, 571	9309 *
3rd char of VOLSER =A	3589	551, 571	9310 *
3rd char of VOLSER =B	3589	551, 571	9311 *
3rd char of VOLSER =C	3589	551, 571	9312 *
3rd char of VOLSER =D	3589	551, 571	9313 *
3rd char of VOLSER =E	3589	551, 571	9314 *
3rd char of VOLSER =F	3589	551, 571	9315 *
3rd char of VOLSER =G	3589	551, 571	9316 *
3rd char of VOLSER =H	3589	551, 571	9317 *
3rd char of VOLSER =I	3589	551, 571	9318 *
3rd char of VOLSER =J	3589	551, 571	9319 *
3rd char of VOLSER =K	3589	551, 571	9320 *
3rd char of VOLSER =L	3589	551, 571	9321 *
3rd char of VOLSER =M	3589	551, 571	9322 *
3rd char of VOLSER =N	3589	551, 571	9323 *
3rd char of VOLSER =O	3589	551, 571	9324 *
3rd char of VOLSER =P	3589	551, 571	9325 *
3rd char of VOLSER =Q	3589	551, 571	9326 *
3rd char of VOLSER =R	3589	551, 571	9327 *
3rd char of VOLSER =Q	3589	551, 571	9326 *
3rd char of VOLSER =S	3589	551, 571	9328 *
3rd char of VOLSER =T	3589	551, 571	9329 *
3rd char of VOLSER =U	3589	551, 571	9330 *
3rd char of VOLSER =V	3589	551, 571	9331 *
3rd char of VOLSER =W	3589	551, 571	9332 *
3rd char of VOLSER =X	3589	551, 571	9333 *
3rd char of VOLSER =Y	3589	551, 571	9334 *
3rd char of VOLSER =Z	3589	551, 571	9335 *
3rd char of VOLSER =Z	3589	551, 571	9335 *
4th char of VOLSER =0	3589	551, 571	9400 *

Description	Machine type	Model	Feature number
4th char of VOLSER =1	3589	551, 571	9401 *
4th char of VOLSER =2	3589	551, 571	9402 *
4th char of VOLSER =3	3589	551, 571	9403 *
4th char of VOLSER =4	3589	551, 571	9404 *
4th char of VOLSER =5	3589	551, 571	9405 *
4th char of VOLSER =6	3589	551, 571	9406 *
4th char of VOLSER =7	3589	551, 571	9407 *
4th char of VOLSER =8	3589	551, 571	9408 *
4th char of VOLSER =9	3589	551, 571	9409 *
5th char of VOLSER =0	3589	551, 571	9500 *
5th char of VOLSER =1	3589	551, 571	9501 *
5th char of VOLSER =2	3589	551, 571	9502 *
5th char of VOLSER =3	3589	551, 571	9503 *
5th char of VOLSER =4	3589	551, 571	9504 *
5th char of VOLSER =5	3589	551, 571	9505 *
5th char of VOLSER =6	3589	551, 571	9506 *
5th char of VOLSER =7	3589	551, 571	9507 *
5th char of VOLSER =8	3589	551, 571	9508 *
5th char of VOLSER =9	3589	551, 571	9509 *

* This feature was previously announced on other models

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 115-128](#)

Publications

The following publications are shipped with their respective products.

The publications listed below will also be available at the following website

<http://www.ibm.com/servers/storage/tape/lto>

Title	Order number
<i>IBM TS2270 Tape Drive model H7S Setup, Operator and Service Guide</i>	GA32-2226-00

Title	Order number
IBM TS2270 Tape Drive Model H7S Quick Reference (English)	GC27-2276-02

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.

The IBM Publications Center Portal is located at

<http://www.ibm.com/shop/publications/order>

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.

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<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

http://www.ibm.com/services/learning/ites.wss/zz/en?pageType=tp_search_new

Technical information

Specified operating environment

Physical specifications

- Width: 105 mm (4.1 in)
- Depth: 102 mm (4.0 in)
- Height: 21 mm (0.8 in)

To assure installability and serviceability in non-IBM industry-standard racks, review the installation planning information for any product-specific installation requirements.

Operating environment

- Operating:
 - Temperature: 10°C to 45°C (50°F to 113°F)
 - Relative humidity: 10 - 80% noncondensing
 - Maximum wet bulb temperature: 26°C (79°F)
- Short Term Storage:
 - Temperature: 16°C to 35°C (61°F to 95°F)
 - Relative humidity: 20 - 80% noncondensing

- Maximum wet bulb temperature: 26°C (79°F)
- Archival Storage:
 - Temperature: 16°C to 25°C (61°F to 77°F)
 - Relative humidity: 20 - 50% noncondensing
 - Maximum wet bulb temperature: 26°C (79°F)
- Shipping:
 - Temperature: -23°C to 49°C (-9 to 120°F)
 - Relative humidity: 5 - 80% noncondensing
 - Maximum wet bulb temperature: 26°C (79°F)

The data recorded on the cartridge has a minimum archive storage life of 30 years when the cartridge is stored at 16°C to 25°C, 20% to 50% noncondensing humidity and wet bulb temperature of 26°C maximum.

Hardware requirements

The 3589 provides labeled or unlabeled data cartridges for Ultrium Tape Drive products. The 3589 models 551, 651, 571, and 671 are IBM Ultrium 7 6 TB Data Cartridges for use on the Ultrium 7 Tape Drive products.

For unlabeled cartridges

Order model 651, with the quantity specified by feature number 6501 (20 cartridges per feature ordered) or feature number 6505 (5 cartridges per feature ordered).

Order model 671 (WORM cartridges), with the quantity specified by feature code number 6701 (20 cartridges per feature ordered).

For labeled cartridges

Order model 551, with the quantity specified by feature number 5501 (20 cartridges per feature ordered).

Order model 571 (WORM cartridges), with the quantity specified by feature number 5701 (20 cartridges per feature ordered).

For RFID labeled cartridges

Order model 551, with the quantity specified by feature number 5511 (20 cartridges per feature ordered).

Order model 571 (WORM cartridges), with the quantity specified by feature number 5711 (20 cartridges per feature ordered).

Note: The Jewel Case feature (#8000) is required for models 651 and 671, and is optional for models 551 and 571 but is recommended to protect media in transit.

For the label, also specify the following:

- Alpha character label background options: Select either Color/Vibrant (#9022) or White (#9077) for the background for alpha characters in the VOLSER label.
- Alpha character VOLSER color choices: If the Color/Vibrant feature (#9022) is selected, then any of ten background colors are available (#9003 to #9012) for the Alpha characters selected. The same background color will be on all the Alpha characters.
- Starting VOLSER sequence number: The starting sequence number for labeled cartridges can be selected from the following:
 - 1st alphanumeric digit (0 to 9 and A to Z): #9100 ('0') to #9135 ('Z')
 - 2nd alphanumeric digit (0 to 9 and A to Z): #9200 ('0') to #9235 ('Z')
 - 3rd alphanumeric digit (0 to 9 and A to Z): #9300 ('0') to #9335 ('Z')
 - 4th numeric digit (0 to 9): #9400 ('0') to #9409 ('9')

- 5th numeric digit (0 to 9): #9500 ('0') to #9509 ('9')
- 6th numeric digit is set to '0'
- 7th char of VOLSER is set to "L"
- 8th char of VOLSER is set to "7" for model 551
- 8th char of VOLSER is set to "X" for model 571

Compatibility

The IBM Ultrium 7 6 TB Data Cartridge models 551, 651, 571, and 671 can only be used on the Ultrium 7 Tape Drives.

Limitations

IBM Ultrium 7 6 TB Data Cartridge models 551, 651, 571, and 671 can only be used on Ultrium 7 Tape Drives.

Planning information

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.

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

Terms and conditions

IBM Global Financing

No

Products - terms and conditions

Warranty period

This product is provided with a limited lifetime warranty. It is warranted against manufacturing and materials defects for the useful life of the product, typically ten years.

No extended warranty services are available for this offering.

Warranty service

You can get assistance and arrange for a warranty product replacement with a phone call to one of the numbers listed under support at

<http://www.ibm.com/servers/storage/media>

Usage plan machine

No

IBM hourly service rate classification

Not applicable.

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

General terms and conditions

Field-installable features

No

Model conversions

No

Machine installation

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

Graduated program license charges apply

No

Licensed Internal Code and Licensed Machine Code

This product does not contain Licensed Internal Code or Licensed Machine Code.

Educational allowance

A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

The educational allowance is 15% for the products in this announcement.

Prices

For additional information and current prices, contact your local IBM representative.

Description	Machine type	Model	Feature number	Plant install only
6 TB Ultrium 7 Tape Cartridge 20- pack Labeled	3589	551		Y
6 TB Ultrium 7 Tape Cartridge	3589	651		Y
6 TB Ultrium 7 WORM Tape Cartridge 20- pack Labeled	3589	571		Y
6 TB Ultrium 7 WORM Tape Cartridge 20- pack	3589	671		Y
TAA Compliance	3589	551, 651, 571, 671	0983	Y
6 TB Ultrium 7 Tape Cart Labeled 20- pack	3589	551	5501	Y
6 TB Ultrium 7 Tape RFID Labeled 20- pack	3589	551	5511	Y

Description	Machine type	Model	Feature number	Plant install only
6 TB Ultrium 7 Tape Cartridge 20-pack	3589	651	6501	Y
6 TB Ultrium 7 Tape Cartridge 5-pack	3589	651	6505	Y
6 TB Ultrium 7 WORM Tape Cartridge 20-pack Labeled	3589	571	5701	Y
6 TB Ultrium 7 WORM RFID Labeled 20-pack	3589	571	5711	Y
6 TB Ultrium 7 WORM Tape Cartridge 20-pack	3589	671	6701	Y
Jewel Case	3589	551, 651, 571, 671	8000	Y
Alpha prefix bkgrd - red	3589	551, 571	9003	Y
Alpha prefix bkgrd - yellow	3589	551, 571	9004	Y
Alpha prefix bkgrd - lt green	3589	551, 571	9005	Y
Alpha prefix bkgrd - lt blue	3589	551, 571	9006	Y
Alpha prefix bkgrd - gray	3589	551, 571	9007	Y
Alpha prefix bkgrd - orange	3589	551, 571	9008	Y
Alpha prefix bkgrd - pink	3589	551, 571	9009	Y
Alpha prefix bkgrd - green	3589	551, 571	9010	Y
Alpha prefix bkgrd - lt orange	3589	551, 571	9011	Y
Alpha prefix bkgrd - purple	3589	551, 571	9012	Y
Label background: Color/Vibrant	3589	551, 571	9022	Y
Label bkgrd: White (no color)	3589	551, 571	9077	Y
1st char of VOLSER =0	3589	551, 571	9100	Y
1st char of VOLSER =1	3589	551, 571	9101	Y
1st char of VOLSER =2	3589	551, 571	9102	Y
1st char of VOLSER =3	3589	551, 571	9103	Y
1st char of VOLSER =4	3589	551, 571	9104	Y
1st char of VOLSER =5	3589	551, 571	9105	Y

Description	Machine type	Model	Feature number	Plant install only
1st char of VOLSER =6	3589	551, 571	9106	Y
1st char of VOLSER =7	3589	551, 571	9107	Y
1st char of VOLSER =8	3589	551, 571	9108	Y
1st char of VOLSER =9	3589	551, 571	9109	Y
1st char of VOLSER =A	3589	551, 571	9110	Y
1st char of VOLSER =B	3589	551, 571	9111	Y
1st char of VOLSER =C	3589	551, 571	9112	Y
1st char of VOLSER =D	3589	551, 571	9113	Y
1st char of VOLSER =E	3589	551, 571	9114	Y
1st char of VOLSER =F	3589	551, 571	9115	Y
1st char of VOLSER =G	3589	551, 571	9116	Y
1st char of VOLSER =H	3589	551, 571	9117	Y
1st char of VOLSER =I	3589	551, 571	9118	Y
1st char of VOLSER =J	3589	551, 571	9119	Y
1st char of VOLSER =K	3589	551, 571	9120	Y
1st char of VOLSER =L	3589	551, 571	9121	Y
1st char of VOLSER =M	3589	551, 571	9122	Y
1st char of VOLSER =N	3589	551, 571	9123	Y
1st char of VOLSER =O	3589	551, 571	9124	Y
1st char of VOLSER =P	3589	551, 571	9125	Y
1st char of VOLSER =Q	3589	551, 571	9126	Y
1st char of VOLSER =R	3589	551, 571	9127	Y
1st char of VOLSER =S	3589	551, 571	9128	Y
1st char of VOLSER =T	3589	551, 571	9129	Y
1st char of VOLSER =U	3589	551, 571	9130	Y
1st char of VOLSER =V	3589	551, 571	9131	Y
1st char of VOLSER =W	3589	551, 571	9132	Y
1st char of VOLSER =X	3589	551, 571	9133	Y
1st char of VOLSER =Y	3589	551, 571	9134	Y
1st char of VOLSER =Z	3589	551, 571	9135	Y
2nd char of VOLSER =0	3589	551, 571	9200	Y

Description	Machine type	Model	Feature number	Plant install only
2nd char of VOLSER =1	3589	551, 571	9201	Y
2nd char of VOLSER =2	3589	551, 571	9202	Y
2nd char of VOLSER =3	3589	551, 571	9203	Y
2nd char of VOLSER =4	3589	551, 571	9204	Y
2nd char of VOLSER =5	3589	551, 571	9205	Y
2nd char of VOLSER =6	3589	551, 571	9206	Y
2nd char of VOLSER =7	3589	551, 571	9207	Y
2nd char of VOLSER =8	3589	551, 571	9208	Y
2nd char of VOLSER =9	3589	551, 571	9209	Y
2nd char of VOLSER =A	3589	551, 571	9210	Y
2nd char of VOLSER =B	3589	551, 571	9211	Y
2nd char of VOLSER =C	3589	551, 571	9212	Y
2nd char of VOLSER =D	3589	551, 571	9213	Y
2nd char of VOLSER =E	3589	551, 571	9214	Y
2nd char of VOLSER =F	3589	551, 571	9215	Y
2nd char of VOLSER =G	3589	551, 571	9216	Y
2nd char of VOLSER =H	3589	551, 571	9217	Y
2nd char of VOLSER =I	3589	551, 571	9218	Y
2nd char of VOLSER =J	3589	551, 571	9219	Y
2nd char of VOLSER =K	3589	551, 571	9220	Y
2nd char of VOLSER =L	3589	551, 571	9221	Y
2nd char of VOLSER =M	3589	551, 571	9222	Y
2nd char of VOLSER =N	3589	551, 571	9223	Y
2nd char of VOLSER =O	3589	551, 571	9224	Y
2nd char of VOLSER =P	3589	551, 571	9225	Y
2nd char of VOLSER =Q	3589	551, 571	9226	Y
2nd char of VOLSER =R	3589	551, 571	9227	Y
2nd char of VOLSER =S	3589	551, 571	9228	Y
2nd char of VOLSER =T	3589	551, 571	9229	Y
2nd char of VOLSER =U	3589	551, 571	9230	Y
2nd char of VOLSER =V	3589	551, 571	9231	Y

Description	Machine type	Model	Feature number	Plant install only
2nd char of VOLSER =W	3589	551, 571	9232	Y
2nd char of VOLSER =X	3589	551, 571	9233	Y
2nd char of VOLSER =Y	3589	551, 571	9234	Y
2nd char of VOLSER =Z	3589	551, 571	9235	Y
3rd char of VOLSER =0	3589	551, 571	9300	Y
3rd char of VOLSER =1	3589	551, 571	9301	Y
3rd char of VOLSER =2	3589	551, 571	9302	Y
3rd char of VOLSER =3	3589	551, 571	9303	Y
3rd char of VOLSER =4	3589	551, 571	9304	Y
3rd char of VOLSER =5	3589	551, 571	9305	Y
3rd char of VOLSER =6	3589	551, 571	9306	Y
3rd char of VOLSER =7	3589	551, 571	9307	Y
3rd char of VOLSER =8	3589	551, 571	9308	Y
3rd char of VOLSER =9	3589	551, 571	9309	Y
3rd char of VOLSER =A	3589	551, 571	9310	Y
3rd char of VOLSER =B	3589	551, 571	9311	Y
3rd char of VOLSER =C	3589	551, 571	9312	Y
3rd char of VOLSER =D	3589	551, 571	9313	Y
3rd char of VOLSER =E	3589	551, 571	9314	Y
3rd char of VOLSER =F	3589	551, 571	9315	Y
3rd char of VOLSER =G	3589	551, 571	9316	Y
3rd char of VOLSER =H	3589	551, 571	9317	Y
3rd char of VOLSER =I	3589	551, 571	9318	Y
3rd char of VOLSER =J	3589	551, 571	9319	Y
3rd char of VOLSER =K	3589	551, 571	9320	Y
3rd char of VOLSER =L	3589	551, 571	9321	Y
3rd char of VOLSER =M	3589	551, 571	9322	Y
3rd char of VOLSER =N	3589	551, 571	9323	Y
3rd char of VOLSER =O	3589	551, 571	9324	Y
3rd char of VOLSER =P	3589	551, 571	9325	Y
3rd char of VOLSER =Q	3589	551, 571	9326	Y

Description	Machine type	Model	Feature number	Plant install only
3rd char of VOLSER =R	3589	551, 571	9327	Y
3rd char of VOLSER =Q	3589	551, 571	9326	Y
3rd char of VOLSER =S	3589	551, 571	9328	Y
3rd char of VOLSER =T	3589	551, 571	9329	Y
3rd char of VOLSER =U	3589	551, 571	9330	Y
3rd char of VOLSER =V	3589	551, 571	9331	Y
3rd char of VOLSER =W	3589	551, 571	9332	Y
3rd char of VOLSER =X	3589	551, 571	9333	Y
3rd char of VOLSER =Y	3589	551, 571	9334	Y
3rd char of VOLSER =Z	3589	551, 571	9335	Y
3rd char of VOLSER =Z	3589	551, 571	9335	Y
4th char of VOLSER =0	3589	551, 571	9400	Y
4th char of VOLSER =1	3589	551, 571	9401	Y
4th char of VOLSER =2	3589	551, 571	9402	Y
4th char of VOLSER =3	3589	551, 571	9403	Y
4th char of VOLSER =4	3589	551, 571	9404	Y
4th char of VOLSER =5	3589	551, 571	9405	Y
4th char of VOLSER =6	3589	551, 571	9406	Y
4th char of VOLSER =7	3589	551, 571	9407	Y
4th char of VOLSER =8	3589	551, 571	9408	Y
4th char of VOLSER =9	3589	551, 571	9409	Y
5th char of VOLSER =0	3589	551, 571	9500	Y
5th char of VOLSER =1	3589	551, 571	9501	Y
5th char of VOLSER =2	3589	551, 571	9502	Y
5th char of VOLSER =3	3589	551, 571	9503	Y
5th char of VOLSER =4	3589	551, 571	9504	Y
5th char of VOLSER =5	3589	551, 571	9505	Y
5th char of VOLSER =6	3589	551, 571	9506	Y
5th char of VOLSER =7	3589	551, 571	9507	Y
5th char of VOLSER =8	3589	551, 571	9508	Y
5th char of VOLSER =9	3589	551, 571	9509	Y

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Corrections

(Corrected on December 15, 2015)

The paragraph at the end of the Operating environment section has been updated.