StorCase® Technology

Data Express®
DE100i-A100

Removable
Ultra ATA133
Drive Enclosure

User's Guide

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Drive Enclosure

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Part No. D89-0000-0103 C02   **October 2005**

Kingston Technology Affiliate

StorCase®
T E C H N O L O G Y
Safest Place for Your Data ®

StorCase Technology, Inc.
17600 Newhope Street
Fountain Valley, CA 92708-9885
Phone (714) 438-1850   Fax (714) 438-1847

LIMITED WARRANTY

STORCASE TECHNOLOGY, Incorporated ("StorCase") warrants that its products will be free from defects in material and workmanship, subject to the conditions and limitations set forth below. StorCase will, at its option, either repair or replace any part of its product that proves defective by reason of improper workmanship or materials. Repair parts or replacement products will be provided by StorCase on an exchange basis, and will be either new or reconditioned to be functionally equivalent to new.

This warranty does not cover any product damage that results from accident, abuse, misuse, natural or personal disaster, external power surge or failure, or any unauthorized disassembly, repair or modification. StorCase will not be responsible for any software, firmware or other customer data stored within, or interfacing with a StorCase product.

Duration of Warranty

Seven-Year Warranty: The following StorCase products are covered by this warranty for a period of seven (7) years from the original date of purchase from StorCase or its authorized resellers: all Data Express® removable device enclosures and all Data Silo®, Data Stacker® and InfoStation® external expansion chassis, <u>except</u> for those components integrated into or purchased separately for use with these products which are identified and covered by the three-year or hard drive warranties described below. All StorCase interface cables and other accessories specifically intended for use with the StorCase products identified above are also covered by this (7) year warranty.

Three-Year Warranty: The following components integrated into or purchased separately for use with StorCase Data Express, Data Silo, Data Stacker and/or InfoStation products are subject to warranty for a period of three (3) years from the original date of purchase from StorCase or its authorized resellers: all RAID controllers, power supplies, fans and blowers.

Two-Year Warranty: The following StorCase products are covered by this warranty for a period of two (2) years from the original date of purchase from StorCase or its authorized resellers: all Rhino®*JR* fixed external expansion chassis (model types "FJR") and all Rhino*JR* removable device enclosures (model types "RJR").

One-Year Warranty: All StorCase products identified as Reconditioned or "Special Inventory" are covered by this warranty for a period of one (1) year from the original date of purchase from StorCase or its authorized resellers. Reconditioned products may only be exchanged for reconditioned products.

Hard Disk Drive Warranty: All hard disk drives purchased from StorCase or through its authorized resellers, whether purchased separately or integrated into StorCase products, are subject to the warranty terms and conditions provided by the drive manufacturer.

Third Party Software Warranty: All third party software purchased from StorCase for use with and/or as part of StorCase products is subject to the warranty terms and conditions provided by the software manufacturer.

Warranty Claim Requirements

To obtain warranty service, the defective product must be returned to your local authorized StorCase dealer or distributor, or, with prior StorCase approval, to the StorCase factory service center.

For defective products returned directly to StorCase, a Return Material Authorization ("RMA") number must be obtained by calling StorCase Customer Service at (714) 445-3455. The RMA number must be prominently displayed on the outside of the return package. Shipments must be freight-prepaid and insured, and must include the product serial number, a detailed description of the problem experienced, and proof of the original retail purchase date. Products must be properly packaged to prevent damage in transit. Damage resulting from improper packaging will not be covered by this warranty. The StorCase factory service center is located at 17650 Newhope Street, Receiving Dock, Gate #4, Fountain Valley, CA 92780, U.S.A.

Free Technical Support

StorCase provides free technical support. If you experience any difficulty during the installation or subsequent use of a StorCase product, please contact StorCase's Technical Support Department prior to servicing your system. This warranty covers only repair or replacement of defective StorCase products, as described above. StorCase is not liable for, and does not cover under warranty, any costs associated with servicing and/or installation of StorCase products.

StorCase Technical Support can be reached in the U.S. at (714) 438-1858 or toll-free at (888) 435-5460 (U.S. and Canada only). StorCase European Technical Support can be reached in the U.K. at +44 (0) 1932 738900.

Disclaimers

The foregoing is the complete warranty for the products identified above and supersedes all other warranties and representations, whether oral or written. StorCase expressly disclaims all warranties for the identified products, which are not stated herein, including, to the extent permitted by applicable law, any implied warranty of merchantability or fitness for a particular purpose. In no event will StorCase be liable to the purchaser, or to any user of a StorCase product, for any damages, expenses, lost revenues, lost savings, lost profits, or any other incidental or consequential damages arising from the purchase, use or inability to use a StorCase product, even if StorCase has been advised of the possibility of such damages.

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Declaration of Conformity

Company Name:	StorCase Technology, Inc.
Corporate Office Address:	17600 Newhope Street Fountain Valley, CA 92708
Manufacturing Address:	17600 Newhope Street Fountain Valley, CA 92708
Product Name:	Data Express DE100
Model Number:	DE100i-XXXX/XXX

Conforms to the following standards:

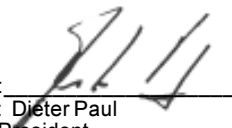|	
EMC Directives: **(89/336/EEC)**	ITE Emission - EN 50081-1 - EN 61000-3-2 Harmonic Current - EN 61000-3-3 Voltage Fluctuations and Flicker - EN 50082-1 - EN 61000-4-2 - EN 61000-4-5 - EN 61000-4-3 - EN 61000-4-6 - EN 61000-4-4 - En 61000-4-8 - EN 61000-4-11
Low Voltage Directive: **(73/23/EEC)**	EN 60950
Safety Standards: **CSA (NRTL/C)**	CAN/CSA-C22.2 No. 950-95 UL 1950
TUV	EN 60950: 2000
EMI Standards:	FCC Part 15, Class B
EMC Standards:	AS/NZS 3548 Information Technology Equipment
Year of Manufacture:	2000

Signature:_____
Full name: Dieter Paul
Position: President

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NOTICE: This User's Guide is subject to periodic updates without notice. While reasonable efforts have been made to ensure accuracy of this document, Stor-Case Technology, Inc. assumes no liability resulting from errors or omissions in this publication, or from the use of the information contained herein.

Please check the StorCase web site at http://www.storcase.com or contact your StorCase representative for the latest revision of this document.

INTRODUCTION

Packaging Information

The StorCase Technology Data Express® system is shipped in a container designed to provide protection and prevent damage during shipment. The Data Express unit was carefully inspected before and during the packing procedure at the factory. Bent or broken connectors, or evidence of other damage to the Data Express should be reported to the shipper immediately. Refer to Figure 1 for the package contents.

If the wrong Data Express model has been received, please call your reseller or StorCase at (800) 435-0642 to arrange for a Return Material Authorization (RMA). StorCase cannot accept returns which do not display an RMA number on the outside of the package. Return the unit with all the original packing materials.

Before removing any component from its packaging, discharge any static electricity by touching a properly grounded metal object.

Serial Numbers

Both the Data Express receiving frame and carrier are labeled with serial numbers. These numbers must be reported to the StorCase Customer Service Representative in order to receive a Return Material Authorization (RMA) for warranty claims. Locate the serial number labels and record the numbers in the spaces provided below.

Receiving Frame: [   ]

Drive Carrier: [   ]

Package Contents

The DE100i-A100 package contents include the following items. If any items are missing or damaged, contact your StorCase dealer for a replacement.
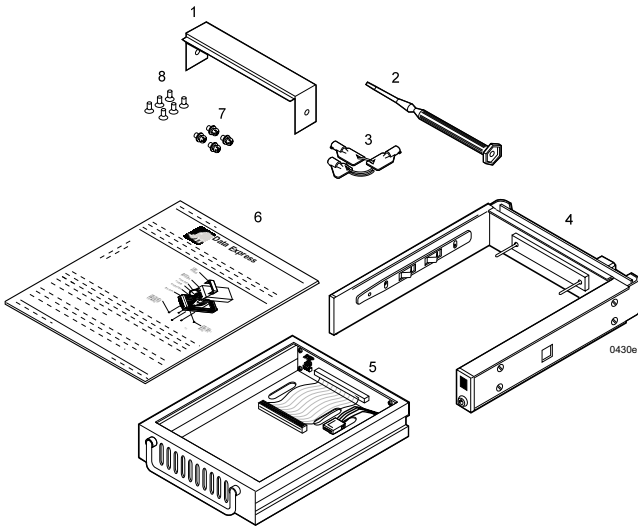
1. Cable Cover	6. Insert Sheet
2. Alignment Tool	7. #6-32 Phillips Machine Hd.
3. Drive Lock Keys	Mounting Screws
4. Receiving Frame	8. #6-32 Phillips F.H. Mounting
5. Drive Carrier	Screws

Figure 1: Package Contents

General Description

NOTE: For Ultra ATA133 (133MByte/sec) operation, an Ultra ATA/133 controller and hard drive(s), and appropriate 40-pin, 80-conductor cable are required.

The StorCase Technology **Data Express® DE100i-A100** is a removable drive carrier and receiving frame designed to provide durable and reliable mounting for 3.5" Ultra ATA133 drives within 5.25" half-height peripheral slots (Figure 2). It is downward-compatible with earlier technology IDE drives.

The DE100i-A100 allows a drive to be removed and transported to another DE100i-A100-equipped computer or expansion chassis, and also provides the ability to secure sensitive data by removing and storing the drive safely for future use.

0425C

Receiving Frame

Drive Carrier
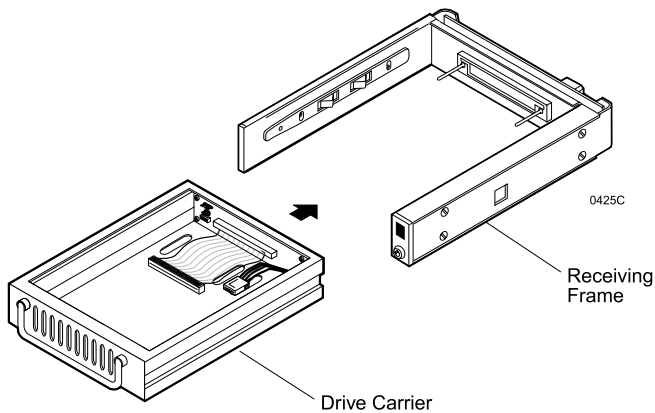
Figure 2: DE100i-A100 Receiving Frame and Carrier

This User's Guide describes the steps required to install the StorCase Data Express DE100i-A100 removable enclosure inside a computer peripheral bay. This guide supplements documentation provided with the host computer system, operating system, and the drive to be installed within the Data Express carrier.

Receiving Frame Front Panel

(Figure 3)

- **Key Lock/Drive Power Switch** performs three (3) functions. The key lock assures proper seating of the drive carrier within the receiving frame, turns power to the drive carrier on and off, and prevents unauthorized removal or installation of the carrier. For the computer to access data on the DE100i-A100 drive, the key must be turned *counterclockwise* to the locked position.

- **Unit ID Number Display** (Figure 4) shows the physical address of the DE100i-A100 drive carrier when the carrier is *Installed and Locked* in the receiving frame or *Removed* from the receiving frame. If the drive carrier is *Installed but Not Locked*, a "u" will be displayed. The unit ID number is selected by means of the unit ID select switch located inside the receiving frame using a special alignment tool supplied with the DE100i-A100. This procedure is explained later during the installation process.

- **Activity Indicator** is a small dot next to the Unit ID Number which flashes when the host computer is accessing data on the DE100i-A100 carrier. Refer to Figure 6 on page 7 and section "*Drive Activity Indicator Connector (J5)*" on page 8 for further information.

- **Device Spin Down/Up Timer** may be disabled by removing Jumper J6 P1-P2 (Figure 5). This feature allows the receiving frame unit number display to provide a visual indication of drive spin down/up activity.
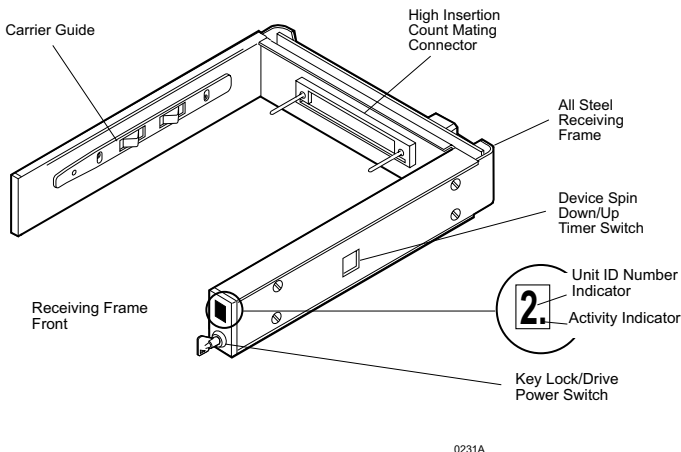
Figure 3: Receiving Frame Front Panel

Carrier Removed from Receiving Frame   Carrier Installed (unlocked)   Carrier Installed (locked)   Drive Activity Indicator

0064B

The number "2" display is for illustration purposes only. It can be any valid Unit ID number. However, the letter "u" (above middle), will appear as illustrated.
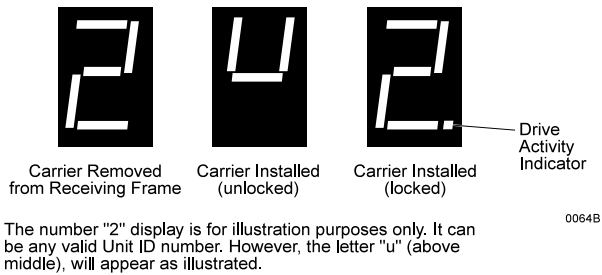
Figure 4:   Receiving Frame Unit ID Number and Activity Display

Receiving Frame Rear Panel

(Figure 5)

- **DC Power Connector (J3):** The DE100i-A100 uses a standard 4-pin DC Power Connector to accept DC power.

- **I/O Connector (J2):** The input/output connector provides a standard interface for all IDE signals. See Table 3 on page 13 for J2 pin assignments.

- **Master/Slave Selection Jumper (J5):**   Master Drive configuration (default). Forces master drive configuration on receiving frame. Change jumper to set slave drive configuration. Refer to Table 1 on page 12 for further information.

- **Device Spin Down/Up Timer Jumper (J6):**   Jumper installed (Factory Default) enables device spin down/up visual indicator. Receiving frame unit ID number display (Figure 4) will flash to indicate device spin down/up.

Master Drive Select (0)
(Factory Default)

Slave Drive
Select (1)

Device Spin Down/Up Jumper (J6)

On (Factory Default) = Device Spin
Down/Up Activity Indicator enabled

Off = Device Spin Down/Up Activity
Indicator disabled

DC Power

J5

J3   +12
+5   GND

J6

J2

J5

0421A

■ = Pin 1

Figure 5:   Receiving Frame Rear Panel

INSTALLATION

Installing the Drive into the Carrier

NOTE: A #2 Phillips screwdriver will be required during this procedure.

While performing the steps in this section, work on a soft surface to prevent excessive shock to the drive being installed. Also refer to the manufacturer's documentation provided with the drive.
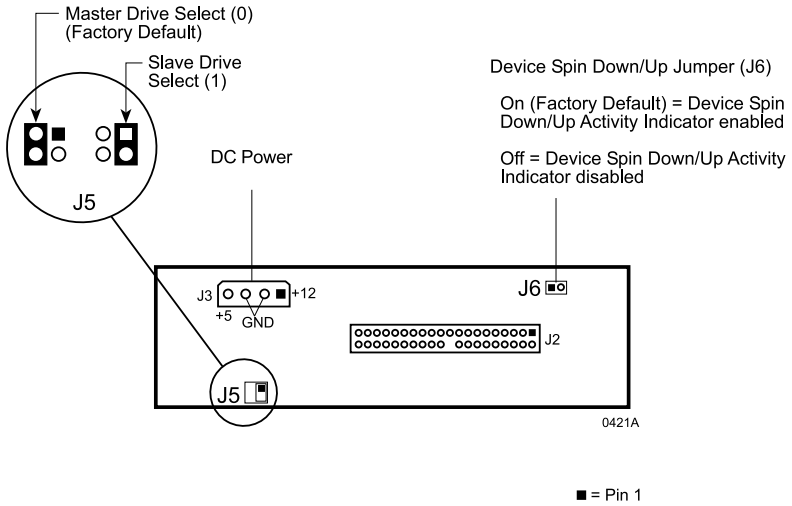
1.   Remove the drive from its protective packaging.

2.   **Plastic Drive Bezel:** If the drive came equipped with a plastic front bezel, it must be removed before installing the drive into the drive carrier.

3.   **Master/Slave Drive Selection:** In most cases, the drive will be factory-configured as a Master Ultra ATA133 drive using a jumper plug on the drive itself. No configuration changes are required. For multiple drive configurations, it is necessary to set the first Ultra ATA133 drive as Master and the second Ultra ATA133 drive to Slave. This can be done by changing the jumper on the Ultra ATA133 drive itself (refer to your drive manufacturer documentation for further information).
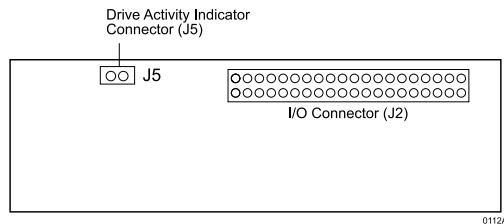
Figure 6:   Drive Carrier Circuit Board

Drive Activity Indicator Connector J5 (Drive Carrier Circuit Board)

Jumper removed (factory default) disables drive activity indicator (Figure 4).

Jumper installed enables drive activity indicator.

NOTE: If two (2) drives are installed (with J5 enabled on both drives), both drive activity indicators will flash simultaneously, *even* if only one drive is being accessed.

Installation

1. Attach the I/O cable on the drive carrier circuit board to the drive. Refer to Figure 7 for an illustration of the installation process.

2. Attach the power cable on the drive carrier circuit board to the drive. Carefully insert the drive into the drive carrier at an angle, cable-end first. **Make sure none of the cables are pinched.** Lower the front of the drive carefully into place. Fasten the drive into the carrier with the four (4) screws provided as shown in Figure 7.

3. Install the provided cable cover.

Cable
Cover
(Provided)

Disk Drive
(Not Included)

I/O Cable

Drive Carrier

Power Cable

Drive Mounting
Hardware (4ea)
Phillips # 6-32 x
3/16 Flat HD

Cable Cover
Screws (2 plcs)
6-32 x 3/16
Flat HD

0084A

Figure 7:   Drive Installation Assembly

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Installing the Receiving Frame

The drive should be installed into the carrier before installing the receiving frame into the mounting bay of a computer or expansion chassis.

NOTE: Use a #2 Phillips screwdriver for this procedure.

1. Turn OFF power to the computer.

2. Open the computer system according to the manufacturer's instructions. If necessary, temporarily remove any expansion boards that may make installation difficult.

3. Select the Master/Slave configuration on the rear of the receiving frame by placing a jumper on the appropriate (J5) pins (Figure 8). Remove the jumper if you wish to use the Unit ID Select switch on the receiving frame to configure the Master/Slave drive selection. Refer to Table 1 for further information.

    NOTE: The unit ID select switch configures the unit ID display only. The master/slave setting on must still be set on the drive itself (refer to the drive manufacturer's documentation for further information).

Master Drive Select
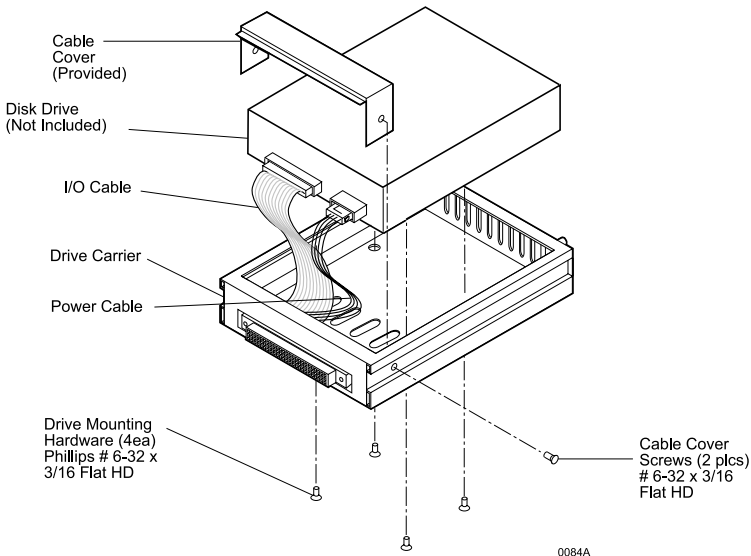(Factory Default)

Slave Drive Select

J5

0423A
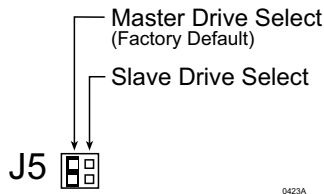
Figure 8:   Master/Slave Configuration Jumper J5

4. With the drive carrier locked in place inside the receiving frame, install the DE100i-A100 into the 5.25" drive opening in the computer or expansion chassis. Use the appropriate guides to position the Data Express, and fasten it into place with the four (4) #6-32 Phillips screws provided. Figure 9 illustrates the location of the mounting holes. Mounting holes are provided on each side and the bottom of the receiving frame to accommodate a variety of mounting configurations. Use the mounting holes which best suit the computer or expansion chassis configuration. Note that bottom mounting holes require self-tapping screws (not provided).

5. Adjust the front of the receiving frame so the carrier slides freely in and out on the receiving frame guides. The position of adjoining peripheral units may require adjustment.

Front of Unit

Mounting
Holes (Right)

Mounting
Holes (Bottom)

Mounting
Holes (Left)

0086

Figure 9: Receiving Frame Mounting Holes

6. Connect the I/O cable from the host adapter to the receiving frame. The Pin 1 indicator
    on the cable must be properly aligned. Refer to Figure 5 for the correct Pin 1 location.

7. Connect the power cable from the DC power supply in the computer or expansion
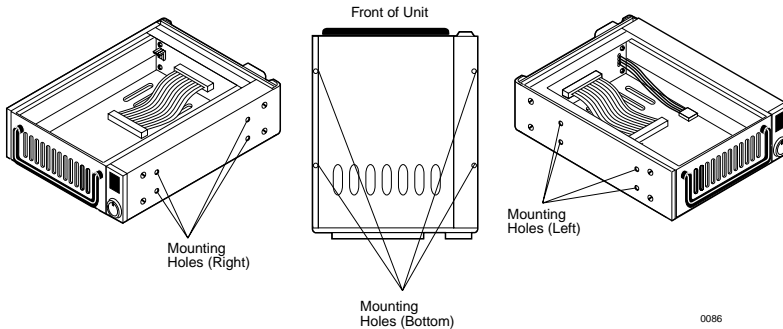   chassis to the power connector on the DE100i-A100 receiving frame. Refer to
    Figure 5 for the DE100i-A100 receiving frame power connector location.

8. Replace any expansion boards that may have been removed earlier. Replace the
    system cover according to the manufacturer's instructions.

9. Reconnect any system or peripheral cables removed earlier.

10. Turn ON power to the computer. If the installation has been successful, and all the
    cables have been properly attached, the system should boot normally. Although the
    computer may not recognize the DE100i-A100 yet, the front panel display on the
    DE100i-A100 receiving frame should illuminate.

11. The new drive may need to be formatted or initialized prior to use with the operating
    system and applications software. Refer to the drive and/or computer manufacturer's
    documentation for formatting information.

Selecting the Unit ID Number

1. Verify that power is turned ON to the DE100i-A100 receiving frame by turning on
    your computer. A number will appear in the unit ID display window if the carrier is
    locked in place.

2. Unlock the DE100i-A100 drive carrier and remove it from the receiving frame. A "u"
    will be displayed initially when the unit is unlocked but will return to a number when
    the carrier is removed from the receiving frame.

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WARNING: Unlocking the carrier unit switches DC power off to the drive. Since disk drives require a short amount of time to spin down, allow about 15 seconds before pulling the carrier unit out of the receiving frame to avoid possible damage to the drive.

3.   Use the alignment tool supplied with the DE100i-A100 to select the ID number of the disk drive.   Refer to Figure 10 for the location of the ID Select Switch inside the receiving frame. Table 2 lists the valid unit ID numbers available for the drive.

4.   After you have selected an appropriate unit number, replace the DE100i-A100 carrier in the receiving frame, and **LOCK IT IN PLACE**.

NOTE: The lock on the DE100i-A100 receiving frame functions as a lock and a DC power switch for the carrier unit. The lock must be engaged in order to supply power to the carrier and installed drive.

5.   Reboot the computer. The new disk is now ready for use, although it may have to be formatted or initialized prior to use with your operating system and applications software.
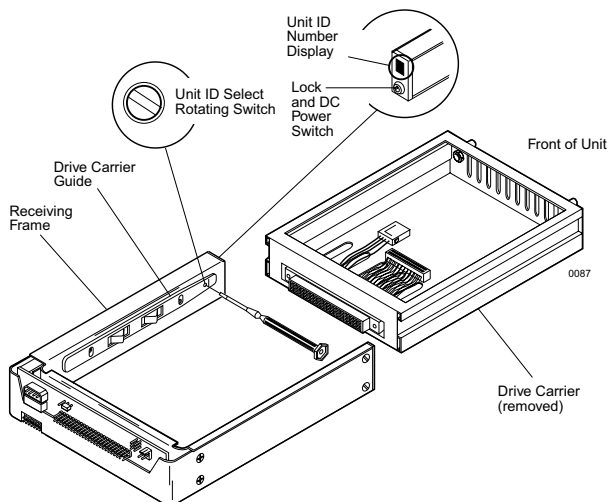
Figure 10:   Unit ID Select Switch Location

Unit ID Select Switch Settings

The following table lists the Unit ID Select Switch settings and the valid AT/IDE unit numbers. Please note that all invalid switch settings have X's through them and result in a blank display in the receiving frame display window.

Table 1:   Unit ID Select Switch Settings

Unit ID Select Position	0	1	2	3	4	5	6	7	8	9
Ultra ATA/100 Drive	✕	1	2	✕	✕	1	2	✕	✕	✕
Unit ID Number Display (with both jumpers removed from J5)	Blank	0	1	Blank	Blank	2	3	Blank	Blank	Blank
Drive Selection	✕	Master	Slave	✕	✕	Master	Slave	✕	✕	✕

824

NOTE: The unit ID number display is for ID display purposes only. The master/slave setting must still be set on the drive itself (refer to the drive manufacturer's documentation for further information).

I/O Connector J2

The I/O connector (J2) pin assignments are as follows:

Table 2: AT/IDE Interface Signals

Pin	Signal	I/O	Pin	Signal	I/O
01	Host Reset-	O	02	Ground	
03	Host Data 7	I/O	04	Host Data 8	I/O
05	Host Data 6	I/O	06	Host Data 9	I/O
07	Host Data 5	I/O	08	Host Data 10	I/O
09	Host Data 4	I/O	10	Host Data 11	I/O
11	Host Data 3	I/O	12	Host Data 12	I/O
13	Host Data 2	I/O	14	Host Data 13	I/O
15	Host Data 1	I/O	16	Host Data 14	I/O
17	Host Data 0	I/O	18	Host Data 15	I/O
19	Ground		20	Key	No Pin
21	DMARQ	O	22	Ground	
23	DIOW-	O	24	Ground	
25	DIOR-	O	26	Ground	
27	Reserved		28	Reserved	
29	Reserved		30	Ground	
31	IRQ 14	I	32	Host IO16-(AT)	I
33	Host ADDR 1	O	34	PDIAG- (16)	Notes
35	Host ADDR 0	O	36	Host ADDR 2	O
37	Host CS0-	O	38	Host CS1-	O
39	DASP-	Notes	40	Ground	

- Indicates an active-low signal.
Signal direction is with respect to the host.
    "I" indicates *To* the host
    "O" indicates *From* the host
The /PDIAG and /DASP signals are used for communication between master, slave, and the host.

APPENDICES

Appendix A - Specifications/Dimensions

Environmental Specifications		
	Operating	Storage
Ambient Temperature	-5° C to 50° C	-45° C to 75° C
Relative Humidity [1]	10% to 80%	10% to 90%
Altitude	-1000 to 50,000 ft -304m to 15240m	-1000 to 50,000 ft -304m to 15240m
Shock [2]	10g	60g

[1]Non-condensing with maximum gradient of 10% per hour.
[2]11 msec pulse width 1/2 sine wave.

Physical Specifications	Carrier	Receiving Frame
Height	1.68" (42.7mm)	1.70" (43.2mm)
Width	4.67" (118.6mm)	5.75" (146.1mm)
Depth	7.38" (187.5mm)	8.18" (207.8mm)
Weight	1.1lb (0.50kg)	1.25lb (0.57kg)[1]

[1]With carrier removed.

Chassis Reliability/Maintainability	
MTBF	500,000 Hours
MTTR	5 Minutes
Preventive Maintenance	None

Electrical Specifications	
Input	+5V 65mA +12V 400μA

Receiving Frame with Carrier

2.06
(52.3mm)

3.13
(79.5mm)

0.50
(12.7mm)

#6-32 x 8

0.38
(9.7mm)

1.70
(43.2mm)

8.18
(207.8mm)

5.75
(146.1mm)

5.50
(139.7mm)

0.25
(6.4mm)

3.13
(79.5mm)

#6-32 x 4
Bottom

0.15
(3.8mm)

Carrier Only

7.38 (187.5mm)

1.68
(42.7mm)

4.67
(118.6mm)

3.75
(95.3mm)

1.75
(44.5mm)

0.26
(6.6mm)

0008A
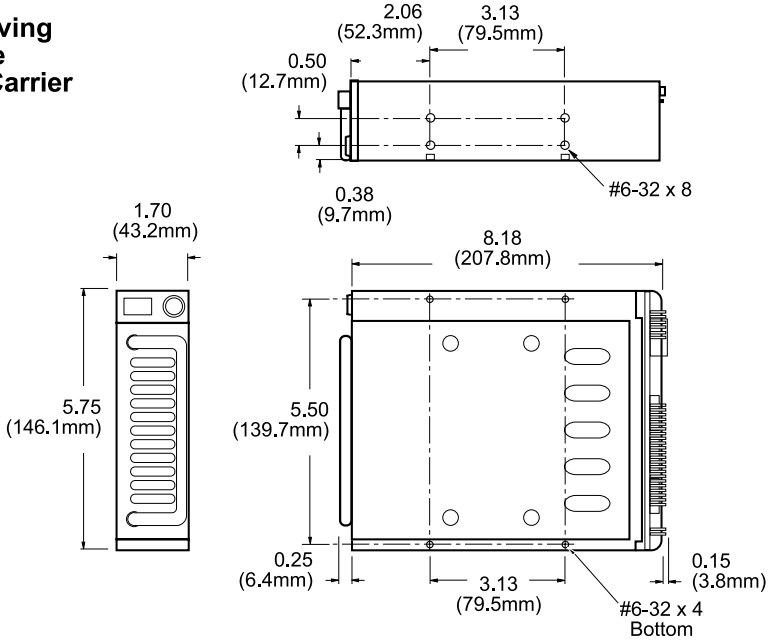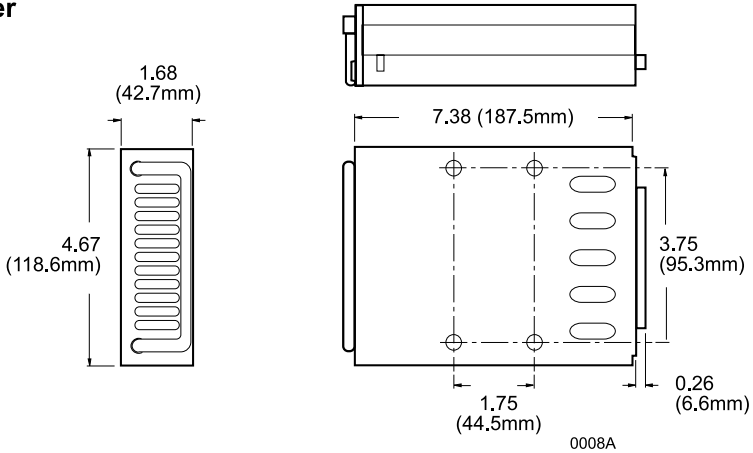
Figure A-1:   DE100i-A100 Physical Dimensions
(Dimensions are for reference only)

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Appendix B - Attaching the ON/OFF Key

The following information describes the necessary steps to attach the ON/OFF key to the key lock mechanism so that it is non-removable, preventing accidental key loss. The procedure can be reversed at a later date to revert back to a removable key.

1. Make certain power is OFF to the receiving frame.

   Locate the rectangular shaped key lock mechanism access hole on the inside of the receiving frame. Note that the pawl is in an upright position.

   Insert the key into the lock.

2. Rotate the key 90 degrees counterclockwise so that the pawl is visible in the access hole as shown in the figure at left.

3. Using the provided alignment tool, unscrew and remove the pawl from the access hole.

4. Rotate the key 180 degrees clockwise (or counterclockwise).

5. Reinstall the pawl into the access hole with the alignment tool.
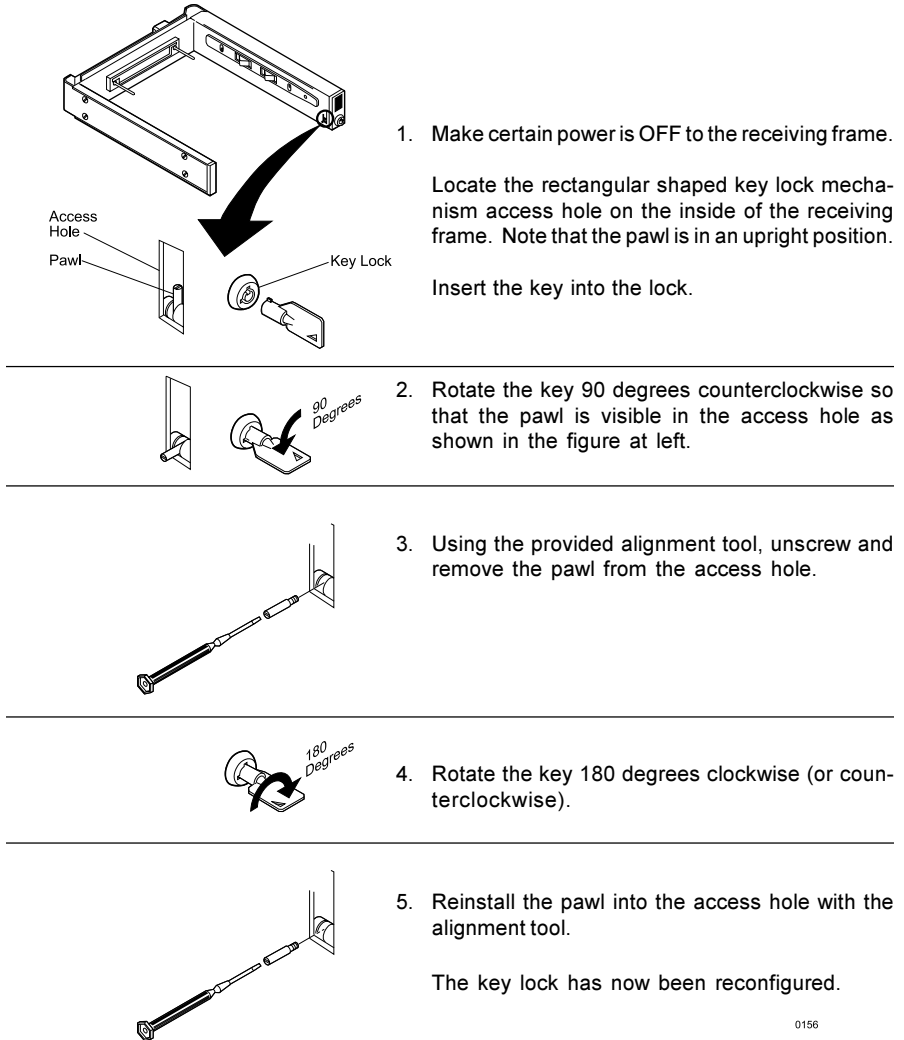
   The key lock has now been reconfigured.

0156

Figure B-1: Attaching the ON/OFF Key

Appendix C - Optional Accessories

Carrying Case

Figure C-1:   Carrying Case

The optional molded plastic carrying case (P/N S20E104), is designed to transport the DE100i-A100 carrier from one site to another in a safe, impact and moisture resistant environment.   Its compact dimensions, 7" long x 9" wide x 3.5" high, make it easy to carry and to store. The foam lining is contoured to fit a single DE100i-A100 carrier. Contact your StorCase dealer for further details and ordering information.
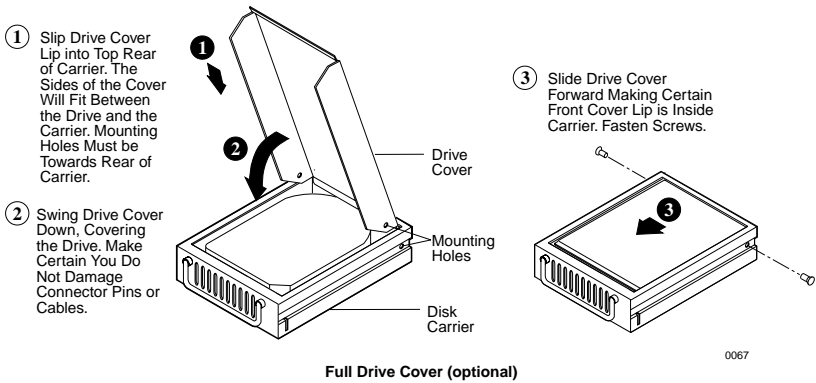
Drive Cover

① Slip Drive Cover Lip into Top Rear of Carrier. The Sides of the Cover Will Fit Between the Drive and the Carrier. Mounting Holes Must be Towards Rear of Carrier.

② Swing Drive Cover Down, Covering the Drive. Make Certain You Do Not Damage Connector Pins or Cables.

③ Slide Drive Cover Forward Making Certain Front Cover Lip is Inside Carrier. Fasten Screws.

Drive Cover

Mounting Holes

Disk Carrier

0067

Full Drive Cover (optional)

Figure C-2: Full Drive Cover

The full drive cover (P/N DX100-COV), is an attractive metal cover which can provide additional protection to the drive, preventing foreign material from coming in contact with the drive and cables. The full drive cover is similar to the cable cover provided with the DE100i-A100, except the full drive cover protects the drive as well as the cables. It is easily installed with two (2) #6-32 Phillips Flat Hd. screws as shown in the illustration above.
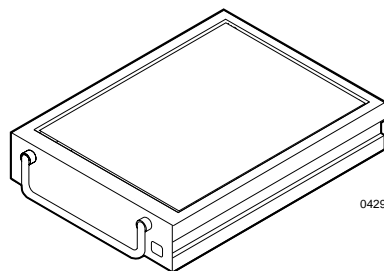
Drive Plug

0429

Figure C-3: Drive Plug

The drive plug (P/N DX100-PLUG), is designed to fill system or external enclosure bays that are occupied by receiving frames that have no carrier units installed. The purpose of the plug is to provide an attractive and functional method of directing proper air flow to the other installed devices in the system or external enclosure.

Solenoid Drive Lock

The factory installed solenoid option prevents premature removal of the carrier and drive unit until the target drive has fully spun down. For disk drives, this period of time can range from 15-40 seconds, depending on the type of drive being used (e.g. Barracuda drives require up to 50 seconds). Refer to the drive manufacturer's documentation for specific drive information.

The solenoid lock is controlled by a timing switch located on the side of the receiving frame.

The solenoid option provides an extra step in drive protection by preventing the removal and movement of the drive until the drive motor has fully stopped.
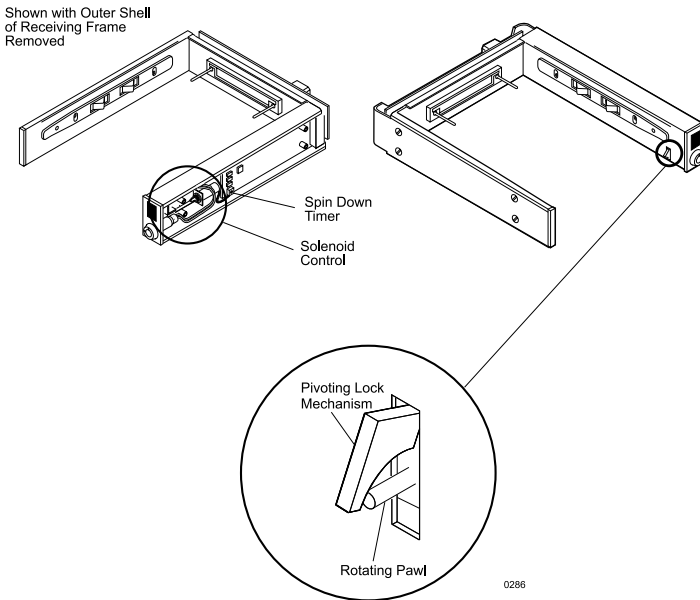
Shown with Outer Shell
of Receiving Frame
Removed

Spin Down
Timer

Solenoid
Control

Pivoting Lock
Mechanism

Rotating Pawl

0286

Figure C-4:   Solenoid Mechanism

Reader's Comments

Please take a few moments when your computer system is up and running to send us your ideas and suggestions for improving our products and documentation. Did the installation go smoothly for you? Are there any changes you would like us to make, either with the hardware itself, or with the installation instructions? Everyone at StorCase Technology is working toward the goal of providing you with the highest quality, most cost effective, products available on the market, and we need your comments to guide our efforts. We look forward to hearing from you soon!

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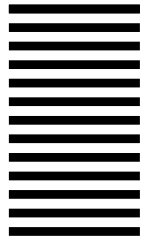
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