StorCase® Technology

Data Express®

DE75i-A

Removable AT/IDE
Low-Profile Drive Enclosure

User's Guide

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Low-Profile Drive Enclosure

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Part No. D89-0000-0058 C01 December 2002

StorCase Technology, Inc.
17580 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 reseller: all Data Express® removable device enclosures and all StorCase interface cables and accessories specifically intended for use with these products. Data Silo®, Data Stacker® and InfoStation® products are covered by this warranty for a period of seven (7) years, excepting the RAID controller, power supply, fan and blower components, which are covered by the three-year warranty described below.

Three-Year Warranty: The following StorCase products are covered by this warranty for a period of three (3) years from the original date of purchase from StorCase or its authorized reseller: all Rhino®*JR* external expansion chassis and all RAID controller modules. In addition, the following components of the Data Silo®, Data Stacker®, InfoStation® products are subject to warranty for a period of three (3) years: all power supplies, fans and blowers.

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.

StorCase TECHNOLOGY
A Kingston Technology Company

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 DE75
Model Number:	DE75i-XXXX/X

Conforms to the following standards:

EMC Directives: **(89/336/EEC)**	EN 50081-1: 1992 Generic Emission - EN 55022/CISPR22 Class B EN 50082-1: 1992 Generic Immunity - IEC 1000-4-2 ESD - IEC 1000-4-3 Radiated Immunity - IEC 1000-4-4 Electrical Fast Transient
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: 1988 EN 60950/A2: 1991 EN 60950/A1: 1990
EMI Standards:	FCC Part 15, Class B
EMC Standards:	AS/NZS 3548 Information Technology Equipment
Year of Manufacture:	1997

Signature:_____
Full name: Dieter Paul
Position: President

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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

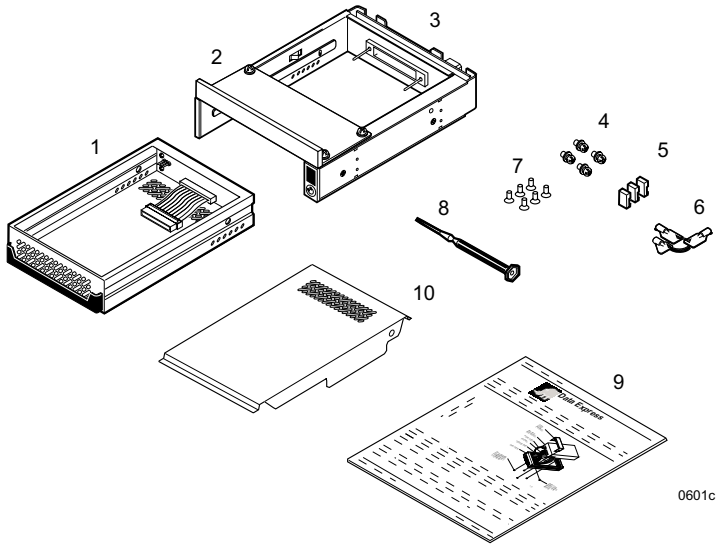
Both the Data Express receiving frame and carrier are labeled with serial numbers. These numbers must be reported to the StorCase Customer Service Representative in order to receive a Return Material Authorization (RMA) for warranty claims. Locate the serial number labels and record the numbers in the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

Receiving Frame: _____

Drive Carrier: _____

Package Contents

The DE75i-A package contents include the following items. If any items are missing or damaged, contact your StorCase dealer for a replacement.



1. Drive Carrier
2. Low-Profile Filler Bracket (Installed)
3. Receiving Frame
4. #6-32 x 1/4" Phillips Machine Hd. Screws (Attach Receiving Frame to Computer)
5. Jumper Plugs
6. Drive Lock Keys
7. #6-32 x 3/16" Phillips F.H. Screws (Attach Drive and Cable Cover to Carrier)
8. Alignment Tool
9. Insert Sheet
10. Drive Cover

Figure 1: Package Contents

General Description

The StorCase Technology **Data Express® DE75i-A** is a removable low-profile drive carrier and receiving frame. The Data Express is designed to provide durable and reliable mounting for 3.5” low profile AT/IDE drives within 5.25" half-height peripheral slots (Figure 2).

The Data Express DE75i-A allows the carrier unit and installed drive to be removed and transported to another DE75i-A equipped computer, and also provides the ability to secure sensitive data by removing and storing the carrier/drive safely for future use.

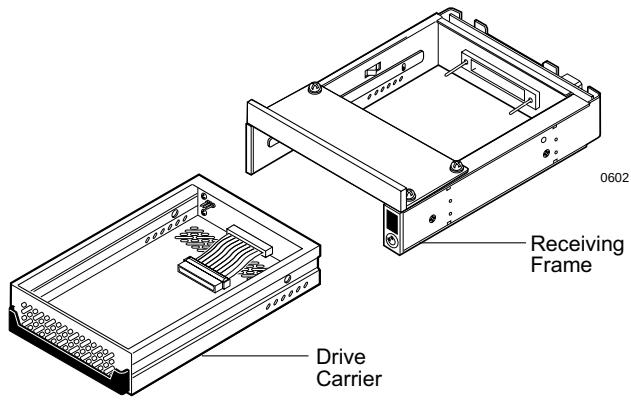


Figure 2: DE75i-A Receiving Frame and Carrier

This User's Guide describes the steps required to install the StorCase Data Express DE75i-A removable enclosure into 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

- **The Key Lock/Drive Power Switch** performs three 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 DE75i-A drive, the key must be turned counterclockwise to the locked position.
- **The Unit ID Number Indicator** displays the physical address of the DE75i-A 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 DE75i-A. This procedure is explained later during the installation process.
- **The Activity Indicator** is a small dot next to the Unit ID Number which illuminates to show when the host computer is accessing the data on the DE75i-A carrier.

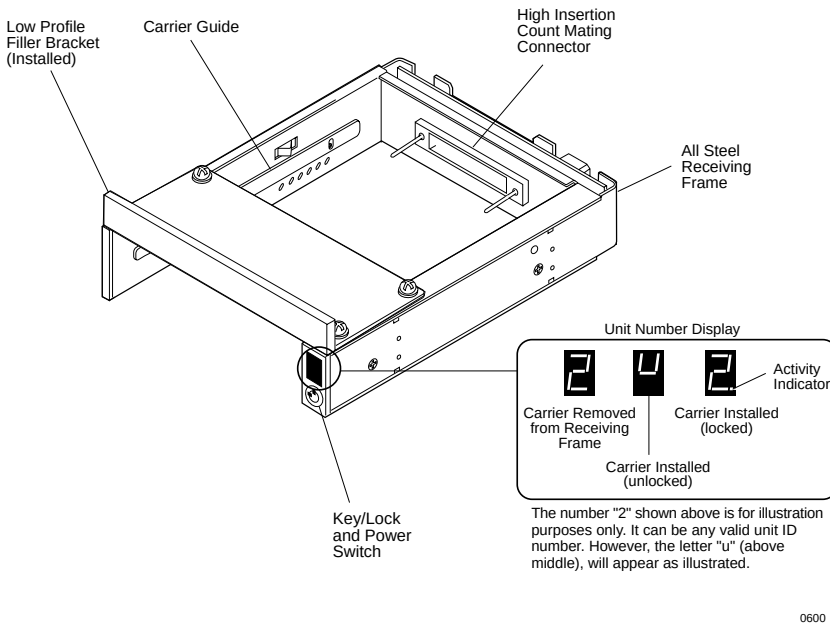


Figure 3: Receiving Frame Front Panel

Receiving Frame Rear Panel

- **DC Power Connector (J3):** The Data Express uses a standard 4-pin DC Power Connector to accept DC power.
- **I/O Connector (J7):** The input/output connector provides a standard interface for all IDE signals. See Table 4 for J7 pin assignments.
- **Master/Slave Selection (JP1 ID0-ID1):** Master Drive configuration ID0 (default). Forces master drive configuration on receiving frame. Change jumper to set slave drive configuration, or remove jumper to use Unit ID Select Switch on receiving frame (Figure 10 and Table 3).
- **Activity Select (JP1 A-B):** Default setting is "A" to use the activity indicator light on the receiving frame. Set to "B" to use the drive activity light on the computer chassis.
- **Master/Slave Receiving Frame Interconnection (JP1 DPR):** Used for older model drives that do not support a "Slave Present" handshake signal at I/O connector Pin 39. When using two receiving frames a connection between JP1 DPR may be required.
- **Remote Drive Activity (JP1 RLED):** Pins 17 & 18 are used for remote drive activity.

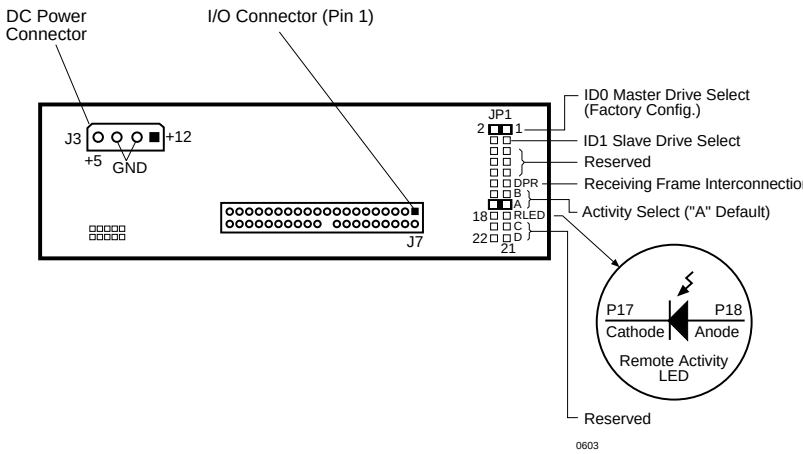


Figure 4: Receiving Frame Rear Panel (Motherboard)

INSTALLATION

Installing the Drive into the Carrier

Preparation

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.

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

1. Remove the drive from its protective packaging.

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

3. **Master/Slave Drive Selection:** There are two ways to set the Master/Slave drive designation for the DE75i-A unit:

   • **Method 1: Use the factory-installed jumper on your IDE drive** - In most cases, the drive will be factory-configured as a Master IDE 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 IDE drive as Master and the second IDE to Slave. This can be done by changing the jumper on the IDE drive itself (refer to your drive manufacturer documentation). This method requires no additional configuration of the drive carrier circuit board. Skip Method 2 below and continue with the "*Installation*" section.

- **Method 2: Use the hard-wire connector J3 on the drive carrier circuit board** - The Master/Slave drive selection can also be set by the receiving frame pins JP1 ID0/ID1 located on the rear panel or by setting the Unit ID Select switch as outlined in *"Setting the Unit ID Number."* These two methods require the fabrication of a cable wire (not provided) between the drive and the carrier board. Refer to the section below to configure the drive carrier circuit board using Connector J3.

Configuring the Drive Carrier Circuit Board (Method 2)

When configuring dual drives for interchangeable Master/Slave assignment, it is necessary to emulate the Master and Slave drive jumpers and the specific drive's signal polarity definition of Master and Slave.

NOTE: For dual, interchangeable drive configuration, the two drives must be of the same make and model.

The appropriate signals from the drive must be connected to J3 on the carrier board. These signals are used to enable the functions of the unit selection, as well as the front panel display, and the drive activity light. Figure 5 illustrates the Drive Carrier Circuit Board.

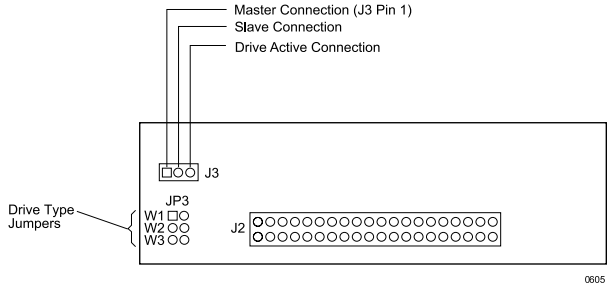


Figure 5: DE75i-A Drive Carrier Circuit Board

The J3 connector has three pins:

J3 Pin 1 should be connected to the Master signal of the disk drive. This signal indicates that this is the Master C: drive.

J3 Pin 2 may be connected to the Slave/Slave Present signal of the drive. This signal indicates whether a Slave D: drive is present or not.

J3 Pin 3 may optionally be connected to the "Active" signal of the drive. This signal controls the level of the drive activity indicator light on the front panel of the receiving frame. The receiving frame circuit board is designed to route the drive's - HOST SLV/ACT signal (drive activity) to the activity indicator light on the front panel of the Data Express receiving frame. A connection to the J3 Pin 3 (on the carrier board) should only be made if the drive does not support this - HOST SLV/ACT signal on Pin 39 of the I/O connector (check the documentation that accompanied the drive and controller). If the J3 Pin 3 connection is made, move jumper JP39 on the receiving frame rear panel from the "A" position to the "B" position.

Three Drive Type Jumpers - W1, W2, and W3 are available to control the signal levels at J3, Pins 1 & 2.

Table 1 shows the signal levels on J3 Pin 1 and Pin 2 for different W1, W2, and W3 jumper settings. Connections to J3 Pin 1 should be made with signals from the drive that refer to Master, while the connections to J3 Pin 2 should be made with signals from the drive that refer to Slave.

Table 1: J3 Master/Slave Signal Levels

Drive Type	Carrier Board Jumpers			Signal Levels			
				Carrier as Master		Carrier as Slave	
				J3		J3	
	W3	W2	W1	Pin 1	Pin 2	Pin 1	Pin 2
Conner, Quantum, Seagate				L	L	H	H
WD, Caviar, Maxtor			*	L	H	H	L

113a

*** corresponds to a jumper installed on the carrier**

L (Low) corresponds to an installed jumper on the drive

H (High) corresponds to a removed jumper on the drive.

If a slave drive is removed, Table 3 shows the signal levels on J3 Pin 1 and Pin 2 that will result for different W1, W2, and W3 jumper settings.

Table 2: J3 Master (No Slave) Signal Levels

Drive Type	Carrier Board Jumpers			Signal Levels	
				Carrier as Master (No Slave)	
				J3	
	W3	W2	W1	Pin 1	Pin 2
Conner, Quantum, Seagate				L	H
WD, Caviar, Maxtor			*	H	H

113b

*** corresponds to a jumper installed on the carrier**

L (Low) corresponds to an installed jumper on the drive

H (High) corresponds to a removed jumper on the drive.

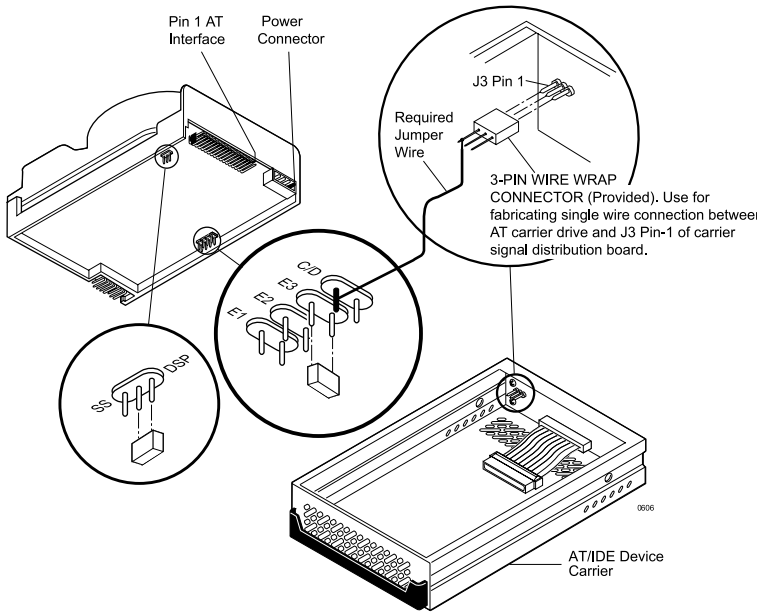


Figure 6: Typical AT/IDE Drive Connections

Typical AT/IDE drive jumper positions are shown in Figure 6.

C/D The darkened pin in the figure above is connected to Pin-1 of the provided wire wrap connector.

DSP Install the jumper in the DSP position as shown in Figure 6.

Install the wire wrap connector onto J3 on the drive carrier circuit board.

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 4-pin power cable on the drive carrier circuit board to the drive. If you are installing only one drive carrier, skip to Step 4.

3. **For Method 2 Users:**
   If a 3-pin Master/Slave select cable was fabricated as outlined in the previous section, install it now between the appropriate drive pins and connector J3 on the drive carrier circuit board. See Figure 6 for a typical AT/IDE drive connection. Also refer to the documentation that accompanied the drive for more specific information.

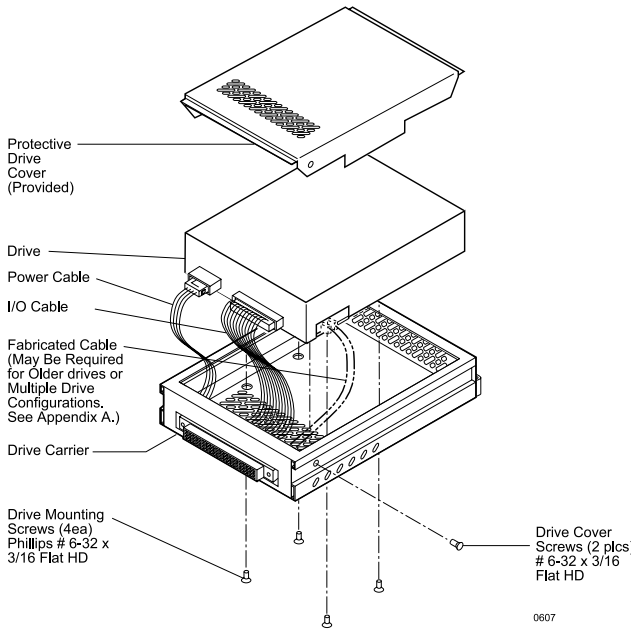


Figure 7: Drive Installation Assembly

4. 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 four of the eight screws provided as shown in Figure 7.

5. Install the provided drive cover.

Installing the Receiving Frame

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

NOTE: Use a #2 Phillips screwdriver during 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 (JP1) pins (Figure 8). Remove the jumper if you wish to use the Unit Select switch on the receiving frame to configure the Master/Slave drive selection.

NOTE: If using drive jumpers to determine Master/Slave status, set jumper JP1 ID0/ ID1 to match drive configuration.

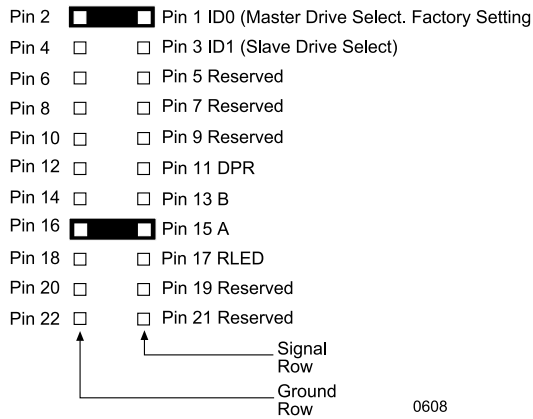


Figure 8: Master/Slave Configuration Jumper JP1

4. With the drive carrier locked in place inside the receiving frame, install the DE75i-A into the 5.25" drive opening in the computer or expansion chassis. Use the appropriate guides to position the DE75i-A, and fasten it into place with the four (4) #6-32 x 1/4" 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).

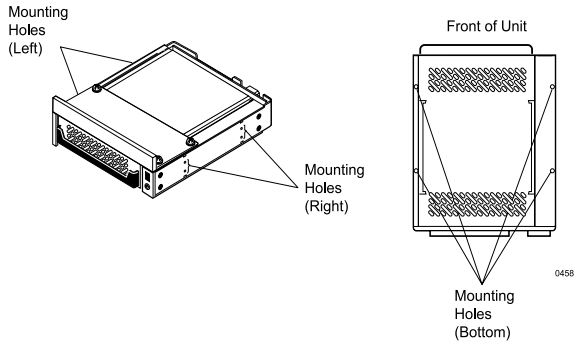


Figure 9: Receiving Frame Mounting Holes

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.

6. To connect the drive to a Remote Activity LED in the computer system, connect the appropriate cable(s) to the receiving frame rear panel as shown in Figure 4. Connect JP1 Pins 17 & 18 to a remote activity LED.

7. 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 4 for the correct Pin 1 location.

8. Connect the power cable from the DC power supply in the computer chassis to the power connector on the DE75i-A receiving frame. Refer to Figure 4 for the receiving frame power connector location.

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

10. Reconnect any system or peripheral cables removed earlier.

11. Turn ON power to the computer. If the installation has been successful, and all cables have been properly attached, the system should boot normally. Although the computer may not recognize the DE75i-A yet, the front panel display on the Data Express should illuminate.

NOTE: The lock on the DE75i-A receiving frame functions as a lock and a DC power switch for the carrier unit. The lock must be engaged (turned counterclockwise) in order to supply power to the carrier and installed drive unit.

12. 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 DE75i-A receiving frame by turning on the computer. A number should appear in the unit display window if the carrier is locked in place.

2. Unlock the DE75i-A 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.

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 DE75i-A to select the ID number of the drive. Refer to Figure 10 for the location of the Unit ID Select Switch inside the receiving frame. Table 3 lists the valid unit ID numbers that can be used for the drive.

NOTE: If using drive or receiving frame jumpers to determine Master/Slave status, set the unit number to "0" on the receiving frame.

4. After selecting an appropriate unit ID number, replace the DE75i-A carrier in the receiving frame, and **LOCK IT IN PLACE**.

NOTE: The lock on the DE75i-A 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 device is now ready for use, although it may have to be formatted or initialized prior to use with your operating system and applications software.

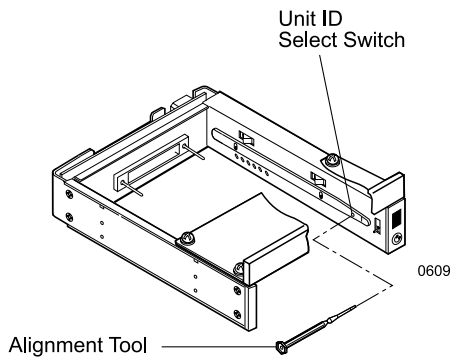


Figure 10: Unit ID Select Switch Location

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 and result in a blank display in the receiving frame display window.

Table 3: Unit ID Select Switch Settings

Unit ID Select Position	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Drive Selection	X	Master	Slave	X	X	Master	Slave	X	X	X
Unit ID Number Display	Blank	0	1	Blank	Blank	2	3	Blank	Blank	Blank

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AT/IDE Interface Connector J7

The AT/IDE Interface connector (J7) pin assignments are as follows:

Table 4: 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	Reserved		22	Ground	
23	HIOW-	O	24	Ground	
25	HIOR-	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 and slave.

APPENDICES

Appendix A - Specifications/Dimensions

Physical dimensions are for reference only.

Environmental Specifications		
	Operating	**Storage**
Ambient Temperature	0° C to 40° C	-40° C to 70° C
Relative Humidity[1]	10% to 80%	10% to 90%
Altitude	-1000 to 10,000 ft -305m to 3048m	-1000 to 40,000 ft -305m to 12195m
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	1.07" (27.2mm)	1.13" (28.7mm)[1]
Width	4.67" (118.6mm)	5.75" (146.1mm)
Depth	7.38" (187.5mm)	8.15" (207.0mm)
Weight	1.1lb (0.50kg)	1.1lb (0.50kg)[2]

[1]With low profile filler bracket removed.
[2]With carrier removed.

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

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

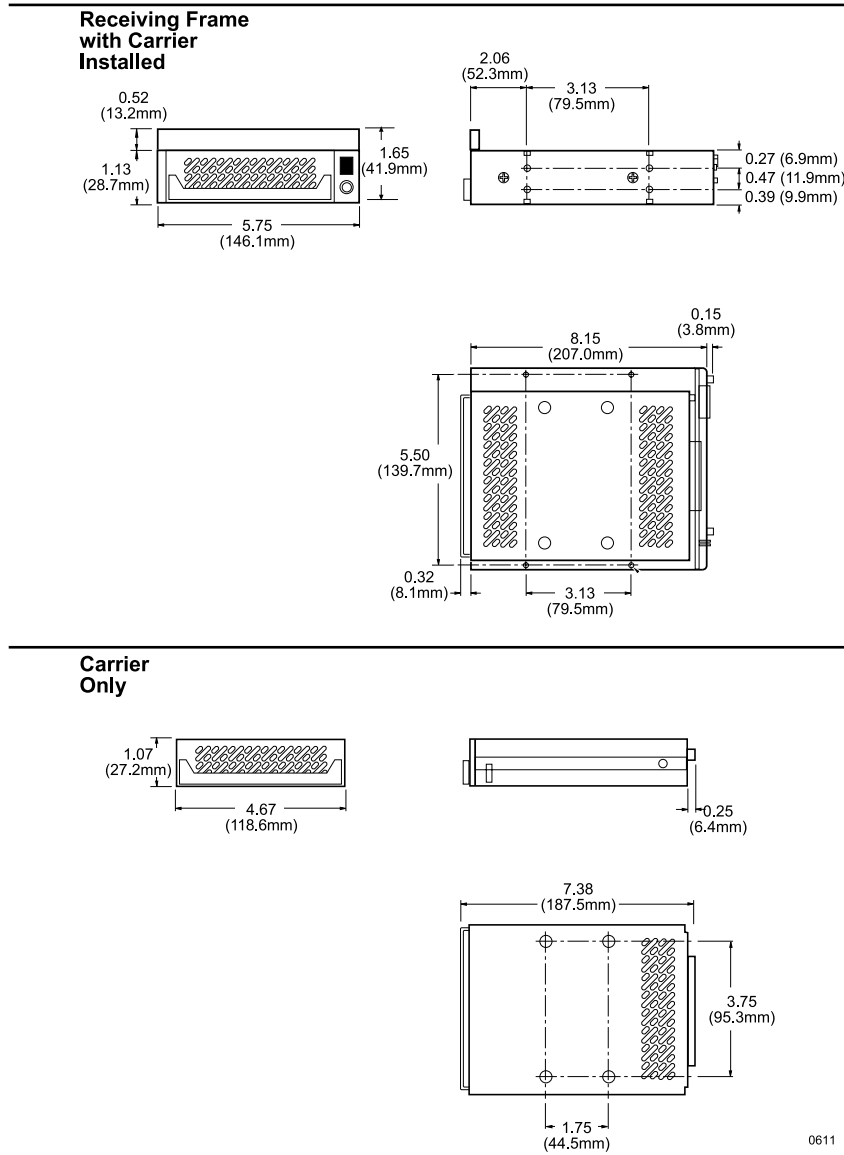
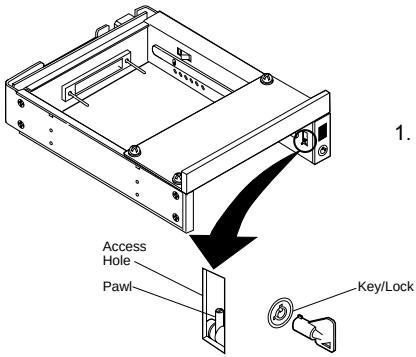


Figure A-1: DE75i-A Physical Dimensions
(DImensions are for reference only)

Appendix B - Attaching the ON/OFF Key

The following information will provide 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.

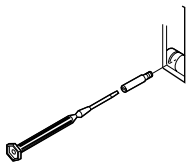


1. Make certain power is OFF to the receiving frame.

   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.

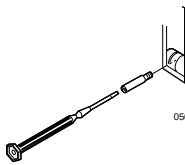
   Insert the key into the key lock.

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.



5. Reinstall the pawl into the access hole with the alignment tool.

   The key is now attached to the key lock mechanism.

Figure B-1: Attaching the ON/OFF Key

Appendix C - Optional Accessories

Carrying Case

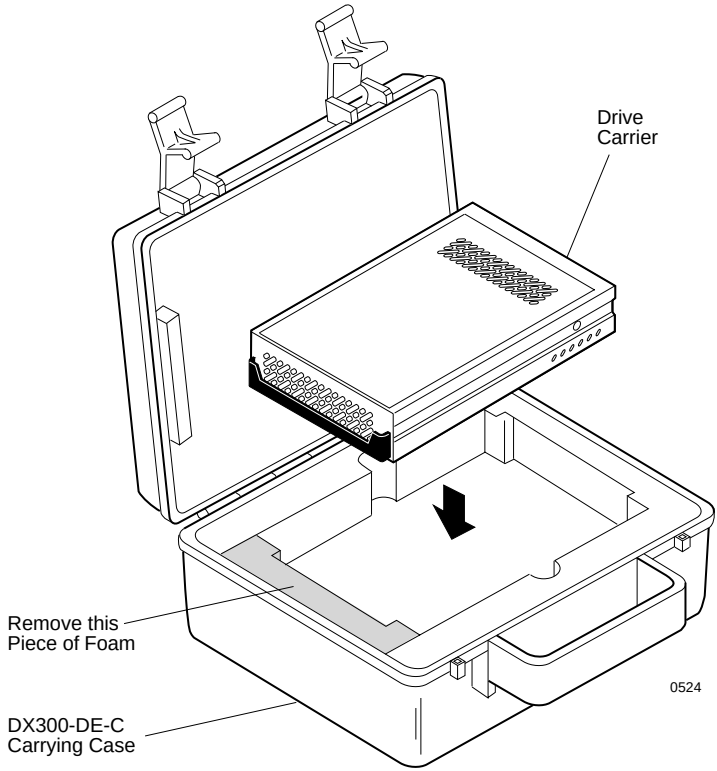


Figure C-1: Carrying Case

The optional molded plastic carrying case is designed to transport the DE75i-A carrier from one location 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 low-profile Data Express carrier (remove the foam piece shown in the illustration above). Contact StorCase for further details and ordering information.

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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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