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6

L40

Tape Library
Customer Replaceable Unit (CRU)

INSTRUCTIONS

PRODUCT TYPE
HARDWARE





L40 Tape Library

Customer Replaceable Unit (CRU)
Instructions

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Sixth Edition (June 2003)

This edition contains 38 pages. See [“Summary of Changes” on page iii](#) for the revision history and summary of changes made to this publication.

A Reader’s Comment Form at the back of this publication lets you communicate suggestions or requests for change. StorageTek encourages and appreciates reader feedback.

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Summary of Changes

EC	Date	Edition	Description
111603	February 2001	First	Initial Release
111671	August 2001	Second	Refer to this edition for a description of the changes.
111732	March 2002	Third	Refer to this edition for a description of the changes.
111763	June 2002	Fourth	Refer to this edition for a description of the changes.
111828	February 2003	Fifth	Refer to this edition for a description of the changes.
128788	June 2003	Sixth	Chapter 2: Removed the Puerto Rico address and changed Federal Express to Associated Global Systems.

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Preface

These customer replaceable unit (CRU) instructions are for replacing the library under the interactive maintenance agreement.

■ Alert Messages

Alert messages call your attention to information that is especially important or that has a unique relationship to the main text or graphic.

Note: A note provides additional information that is of special interest. A note might point out exceptions to rules or procedures. A note usually, but not always, follows the information to which it pertains.

CAUTION:

A caution informs the reader of conditions that might result in damage to hardware, corruption of data, corruption of application software, or long-term health problems in people. A caution always precedes the information to which it pertains.

WARNING:

A warning alerts the reader to conditions that might result in injury or death. A warning always precedes the information to which it pertains.

■ Conventions

Typographical conventions highlight special words, phrases, and actions in this publication.

Item	Example	Description of Convention
Buttons	MENU	Font and capitalization follows label on product
Commands	Mode Select	Initial cap
Document titles	<i>System Assurance Guide</i>	Italic font
Emphasis	<i>not or must</i>	Italic font
File names	<code>esc.txt</code>	Monospace font
Hypertext links	Figure 2-1 on page 2-5	Blue (prints black in hardcopy publications)

Item	Example	Description of Convention
Indicators	<i>Open</i>	Font and capitalization follows label on product
Jumper names	TERMPWR	All uppercase
Keyboard keys	<Y> <Enter> or <Ctrl+Alt+Delete>	Font and capitalization follows label on product; enclosed within angle brackets
Menu names	Configuration Menu	Capitalization follows label on product
Parameters and variables	Device = <i>xx</i>	Italic font
Path names	c: /mydirectory	Monospace font
Port or connector names	SER1	Font and capitalization follows label on product; otherwise, all uppercase
Positions for circuit breakers, jumpers, and switches	ON	Font and capitalization follows label on product; otherwise, all uppercase
Screen text (including screen captures, screen messages, and user input)	downloading	Monospace font
Switch names	Power	Font and capitalization follows label on product
URLs	http:// www.storagetek.com	Blue (prints black in hardcopy publications)

■ Additional Information

StorageTek offers several methods for you to obtain additional information. Please use one of these methods when you want to obtain the latest edition of this or any other StorageTek customer publication.

StorageTek's External Web Site

StorageTek's external Web site provides marketing, product, event, corporate, and service information. In addition, the external Web site serves as an entry point to the Customer Resource Center (CRC) and to the e-Partners site. The external Web site is accessible to anyone with a Web browser and an Internet connection.

The URL for the StorageTek external Web site is <http://www.storagetek.com>

Customer Resource Center

StorageTek's CRC is a Web site that enables members to resolve technical issues by searching code fixes and technical documentation. CRC membership entitles you to other proactive services, such as HIPER subscriptions, technical tips, answers to frequently asked questions, addenda to product documentation books, and online product support contact information. Customers who have a current warranty or a current maintenance service agreement may apply for membership by clicking on the **Request Password** button on the CRC home page.

The URL for the CRC is <http://www.support.storagetek.com>.

e-Partners Site

StorageTek's e-Partners site is a Web site that provides information about products, services, customer support, upcoming events, training programs, and sales tools to support StorageTek's e-Partners. Access to this site, beyond the e-Partners Login page, is restricted. On the e-Partners Login page, current partners who do not have access can request a login ID and password and prospective partners can apply to become StorageTek resellers.

The URL for the e-Partners site is <http://members.storagetek.com>.

Hardcopy Publications

Contact a StorageTek sales or marketing representative to order additional paper copies of this publication or to order other StorageTek customer publications in paper format.

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Safety

The following pages describe common practices concerning electrical safety, ergonomics, rack installation, and electrostatic discharge.

WARNING:

Potential injury: On-the-job safety is important; therefore, observe the following safety precautions. Failing to follow these precautions could result in serious injury.

Remove all conductive jewelry, such as watches and rings, before you access CRUs.

- Avoid electrical shock. Be careful when you work near power connectors and supplies.
- Power-off the equipment before you remove a customer replaceable unit (CRU). Remember that dangerous voltages could still be present in some areas even though power is off.
- Lift objects properly; read the information in [“Lifting Techniques” \(see below\)](#).
- Enforce good housekeeping practices in the equipment area to help prevent fire and accidents.

■ Lifting Techniques

Lifting, regardless of how much or how little, can create serious back stress. If you follow these guidelines, you can reduce the risk of back injury:

- Do not twist your body to pick up something or to put it down. Twisting puts extreme pressure on your back, especially when you lift or carry objects. Instead of twisting, make the task two separate moves; first lift, and then use your feet to turn your body.
- Plan the lift: first examine the object and then determine how it will be lifted and where it will be placed.
- Choose the appropriate lifting technique. Examine the weight, size, location, frequency, and direction of the lift. Plan to avoid awkward postures, and determine if material-handling aids are needed.
- Place your feet shoulder-width apart, and place one foot a little behind the other. Keep your back straight because even light loads can significantly increase pressure on your spine when you lean forward.

- Whenever you can, grip the load with your whole hand, and use two hands.
- Carry objects at elbow height and close to your body. The farther away you hold an object, the more force it puts on your lower back.
- Lift with your legs instead of your back. Leg muscles are some of the strongest in the body. When you squat and lift with your legs, you can lift more weight safely.
- Alternate lifting tasks with tasks that are less stressful to the same muscles. This technique ensures that your muscles have some recovery time.

■ **Shoulder, Elbow, Wrist, and Hand Safety**

Follow these guidelines to minimize the possibility of injury to your shoulders, elbows, wrists, and hands.

- Work within your safety zone—the area between shoulder level and knuckle level of your lowered hands. You face less chance of injury when you work or lift in this area.
- Keep your elbows bent to keep loads close to your body and to decrease the amount of force necessary to do the job. If you use this posture, you will put less weight and pressure on your shoulder.
- Be sure to keep your wrists straight. Avoid bending, extending, or twisting your wrists for long periods of time.
- Do not use a pinch grip to lift large or heavy loads because the way you lift also can affect the tendons in your hand. When you grasp an object between your thumb and fingers, you put a lot of tension on hand and wrist tendons. Use both hands—use one for a while, and then use the other—to give them rest.

■ Rack Safety and Precautions

WARNING:

Possible personal injury:

- ***Lifting hazard:*** The library weighs 44.45 kg (98 lb) plus the weight of the drives. Use at least two people and a mechanical device to lift and position the library.
- **Also consider the library's total weight when you are placing other equipment into the rack. To prevent an unbalanced situation, install the heaviest equipment on the bottom and the lightest equipment on the top. Failure to do so might cause the rack to become unstable and tip over.**

Observe the following safety precautions when you are installing the library into a rack:

- If the rack has front or rear doors, do *not* allow the doors to interfere with the library's ventilation. The rack's internal ambient temperature should not exceed the recommended operating temperature range of the library. The maximum rack air ambient temperature is 40°C (104°F).
- Ensure that rack doors provide adequate clearance to the library.
- Ensure that the combination of the library with other equipment in the rack does not create an overcurrent condition, whether the equipment is connected directly to the branch circuit or to a power distribution strip.
- Ensure that all equipment in the rack has reliable earth ground, whether the equipment is connected directly to the branch circuit or to a power distribution strip.

Note: The library relies on the ground pin of the power cord for its earth ground.

■ Electrostatic Discharge (ESD) Damage Prevention

Anyone who handles ESD-sensitive components must be aware of the damage that ESD can cause to electronic components and must take the proper precautions to prevent it. Also, anyone who performs maintenance on StorageTek equipment must complete an ESD-basics course.

CAUTION:

***Potential damage to equipment:* Handle ESD-sensitive components *only* under ESD-protected conditions. To meet this requirement, always use the Field Service Grounding Kit (PN 4711) and always follow these ESD precautions and procedures when you are accessing StorageTek equipment or handling ESD-sensitive components.**

ESD Precautions

Always take the following general precautions when you work with ESD-sensitive components:

- Wear ESD protection whenever you remove StorageTek equipment.
- Keep ESD-sensitive printed-circuit components in their ESD-protective packages until you have taken all ESD-preventive steps and you are ready to install the component.
- Do not allow anyone to touch or handle an unprotected ESD-sensitive component unless that person has taken all ESD precautions.
- Reinstall all equipment covers and close all equipment doors after you have completed the work.
- If the grounding-kit work surface has been exposed to temperatures above 66°C (150°F) or below 4.5°C (40°F), acclimate the work surface to room temperature before you unroll it.
- Immediately place any component that you have removed into an ESD-protective package.
- Keep the grounding-kit work surface clean.

Note: To clean the work surface, use a mild detergent and water, and make sure that the surface is completely dry before you use it.

- Periodically check the electrical resistance of the ground cord and the wrist-strap coil cord.

Note: The ground cord should measure less than 1.2 M Ω , and the coil cord should measure between 0.8 and 1.2 M Ω . Repair or replace the cords if they no longer meet these requirements.

ESD-Protection Procedure

Remember that each customer environment is different. Address all the customer's concerns before you work on any equipment.

Prepare the Work Area

1. Before you access the equipment, unfold the grounding-kit work surface completely and place it on a convenient surface.
2. Attach one end of the ground cord to the work surface; secure the snap fastener.

Note: You will attach the free end in a later step.

3. Slip on an ESD wrist strap. Make sure that the strap is comfortable and makes contact with the entire circumference of your wrist.
4. Snap one end of the coil cord to the wrist band.

Access the Equipment

5. Carefully open the doors to the equipment or remove the covers from the equipment. Do not touch any internal components.

CAUTION:

Be sure that you are properly grounded before you touch any internal components.

6. Attach the free end of the coil cord to the most appropriate place:
 - a. If you are working on components from a small piece of equipment, attach the free end of the coil cord to the grounding-kit work surface. In addition, be sure that you touch an unpainted metal surface on the equipment before you touch an internal component.
 - b. If you are working on components from a large piece of equipment, attach the free end of the coil cord to a grounding jack or to an unpainted metal surface inside the equipment.

Replace Components

7. Remove the defective component and place it on the work surface.
8. Remove the replacement component from its ESD-protective package, and install the component in the equipment.
9. Place the defective component in the ESD-protective package.

Clean Up

10. Disconnect the ground cords from the equipment.
11. Reinstall all equipment covers and close all equipment doors.
12. Disconnect the coil cord from your wrist, and, if necessary, disconnect the ground cord from the work surface.
13. Properly store the work surface and the other Field Service Grounding Kit items.

■ Fiber-optic Safety

WARNING:

Eye hazard. Never look directly into a fiber-optic cable, a fiber-optic connector, or a laser transceiver module. Hazardous conditions might exist from laser power levels that are capable of causing injury to the eye.

Be especially careful when using optical instruments with this equipment. Such instruments might increase the likelihood of eye injury.

The laser transceivers in fiber-optic equipment can pose dangers to personal safety. Ensure that anyone who works with this StorageTek equipment understands these dangers and follows safety procedures. Ensure that the optical ports of every laser transceiver module are terminated with an optical connector, a dust plug, or a cover.

Each fiber-optic interface in this StorageTek Fibre Channel equipment contains a laser transceiver that is a Class 1 Laser Product. Each laser transceiver has an output of less than 70 μ W and a wavelength of 850 nm. StorageTek's Class 1 Laser Products comply with EN60825-1(+A-11) and with sections 21 CFR 1040.10 and 1040.11 of the Food and Drug Administration (FDA) regulations.

The following translations are for users in Finland and Sweden who wish to identify laser safety and classification:

CLASS 1 LASER
LUOKAN 1 LASERLAITE
KLASSE 1 LASER APPARAT

Laser Product Label

In accordance with safety regulations, a label on each StorageTek Fibre Channel product identifies the laser class of the product and the place and date of the manufacturer. The label appears on top of a Fibre Channel tape drive and near the Fibre Channel connectors on a Fibre Channel tape library. A copy of the label is shown here:

CLASS 1 LASER PRODUCT
LASER KLASSE 1
APPAREIL A LASER DE CLASSE 1
COMPLIES WITH 21 CFR 1040.10 AND 1040.11

Fiber-optic Cable Installation

Follow these guidelines when you install fiber-optic cables:

1. Cable routing:

- **Raised floor:** You may install fiber-optic cables under a raised floor. Route them away from any obstruction, such as existing cables or other equipment.
- **Cable tray or raceway:** Place the cables in position; do not pull them through the cable tray. Route the cables away from sharp corners, ceiling hangers, pipes, and construction activity.
- **Vertical rise length:** Leave the cables on the shipping spool, and lower them from above; do not pull the cables up from below. Use proper cable ties to secure the cable.
- **General:** Do not install fiber-optic cables on top of smoke detectors.

2. Cable management:

- Leave at least 4.6 m (15 ft) of cable at each end for future growth.
- Use strain reliefs to prevent the weight of the cable from damaging the connector.
- Review all information in this manual and in any related manuals about safely handling fiber-optic cables.

3. Connector protection:

- Insert connectors carefully to prevent damage to the connector or fiber.
- Leave the connector's protective cover in place until you are ready to make connections.
- Replace the connector's protective cover when the connector is disconnected.

- Clean the connector before making a connection. Make sure that there are no obstructions and that keyways are aligned.

Fiber-optic Cable Handling

Observe these precautions when you handle fiber-optic cables:

- Do not coil the cable to less than 96 mm (3.75 in.) in diameter.
- Do not bend the cable to less than 12 mm (0.5 in.) in radius. StorageTek recommends that a cable's bend radius be no less than 20 times the diameter of the cable.
- Do not pull on the cables; carefully place them into position.
- Do not grasp the cables with pliers, grippers, or side cutters; do not attach pulling devices to the cables or connectors.
- Keep cables away from sharp edges or sharp protrusions that could cut or wear through the cable; make sure that cutouts in the equipment have protective edging.
- Protect the cable from extreme temperature conditions.
- Install the connector's protective cover whenever the connector is not connected.

Replacing the Library

1

This chapter describes how to replace the library.

Note: The CRU does not include the drive tray assemblies, cartridges, external cables, or personality module. Do *not* return them with your shipment.

■ Removing the Existing Library

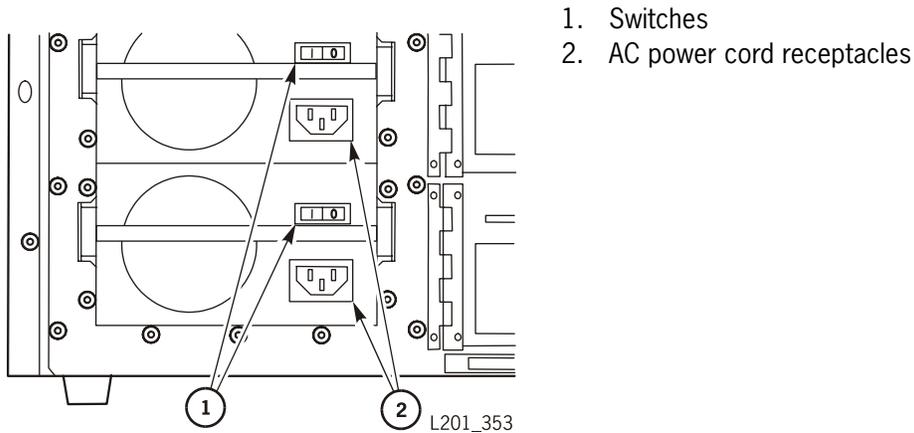
WARNING:

Possible personal injury: The L40 library weighs approximately 44.45 kg (98 lb) without drives. To remove the library from a rack will require more than one person. It is recommended that you use a mechanical lifting device to lift and position the library.

Observe these precautions before beginning:

- Read the safety instructions in “[Safety](#).”
- Stop all data processing on the channel to which the library is connected before disconnecting the library.
- Make sure there is no activity on the SCSI bus before disconnecting the external SCSI cables. Stop all processes on the client server.
- Make sure all signals are terminated at each end of the SCSI bus. Do not mix single-ended and differential terminators.
- If the drives are daisy-chained, stop all data processing on the channel to which the drives are connected before disconnecting the drives.

-
1. End all jobs the robot and the drives are performing.
-
2. Remove power from the library by placing the power switch (or switches if your unit has the redundant power supply) to the OFF position (O). The switches are at the rear of the library, in the bottom, left corner.
-
3. Disconnect the AC power cords.
-



-
4. Insert the door key into the front door lock and open the door.
-
5. Look into the drive area to determine where the drives are installed.
-
6. Use the following steps to remove all the drive trays, *but do not remove the drives from the trays*.
-

CAUTION:
Possible component damage: Do not use a screwdriver for the drive door latch knob or drive tray latch knob.

-
7. At the rear of the library, turn the drive door latch knob to your left, and open the door.
-

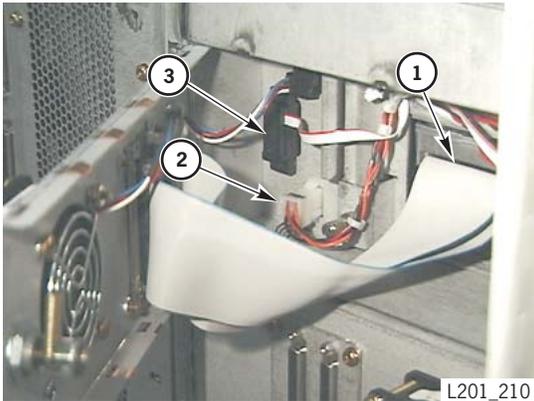


Note: The following figure shows a typical cable configuration. Your cables might differ slightly, depending on your drive type.

CAUTION:

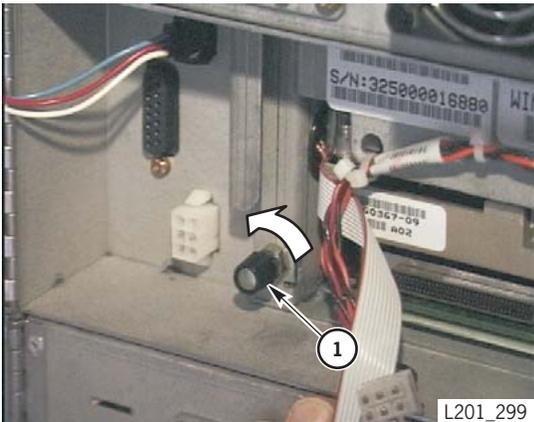
Possible equipment damage: Pull P903 straight out to prevent damaging the pins.

8. Disconnect the drive SCSI connector, P903, from the drive.
9. Disconnect the drive power cable, P904A/B, from the library.
10. Disconnect the serial interface connector, P6A/B, from the library.



1. P903
2. P904A/B
3. P6A/B

11. Turn the drive tray latch knob all the way to your left. This loosens the latch to its fully unlocked position.



1. Knob

CAUTION:

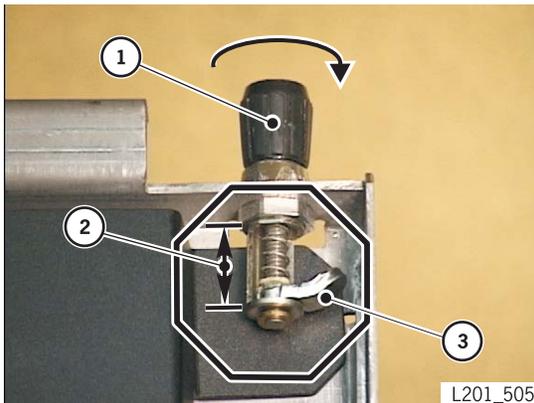
Lifting hazard: Depending upon the drive type, each drive and tray weighs between 5.0 kg (11 lb) and 5.8 kg (12.7 lb). Make sure you follow the lifting instructions in [“Lifting Techniques” on page xi](#).

12. Pull out the drive tray and set it aside.

CAUTION:

Load/unload problems: The latch must be fully loosened (disengaged) before you slide the tray into the slot. If the latch arm contacts part of the library frame as it is being tightened, it cannot be rotated to its fully locked position, and the tray will not be firmly locked into the drive slot. This can cause alignment problems and the camera can have problems reading the target.

13. Holding the replacement drive tray as shown in the figure below, turn the drive tray latch knob all the way to your right so that it is in its fully disengaged position.
14. Slide the replacement drive tray into the empty slot.



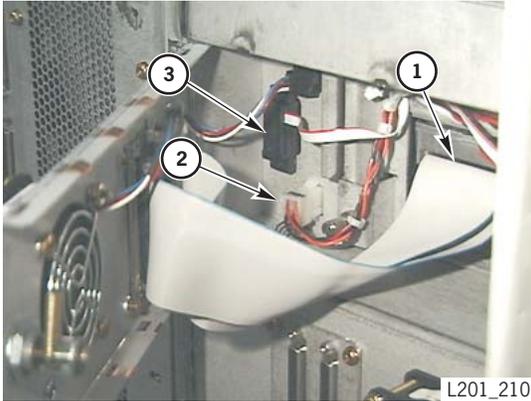
1. Knob
2. Range
3. Latch arm (shown disengaged)

CAUTION:

Possible component damage: Do not use a screwdriver to tighten the drive tray latch knob.

15. Turn the knob all the way to the right to engage the latch and clamp it firmly into the frame.
 16. Pull back on the tray to make sure the tray is securely latched. It should not move.
-

-
17. Connect the drive SCSI connector, P903, to the drive.
 18. Connect the drive power cable, P904A/B, to the library.
 19. Connect the serial interface connector, P6A/B, to the library.



1. P903
2. P904A/B
3. P6A/B

CAUTION:

Possible equipment damage: Make sure the SCSI cable does not block the fan before you close the drive door.

Possible cable damage: Make sure you move the SCSI cable out of the way before you close the drive door.

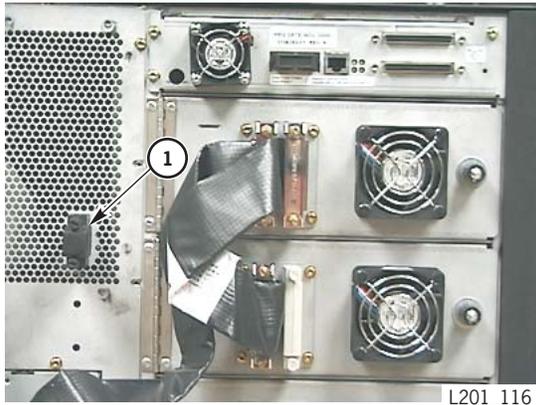
Possible component damage: Do not use a screwdriver to tighten the drive door latch knob.

20. Close the drive door and secure it by turning the drive door latch knob to your right.
 21. Repeat the drive steps for every drive tray.
-

CAUTION:

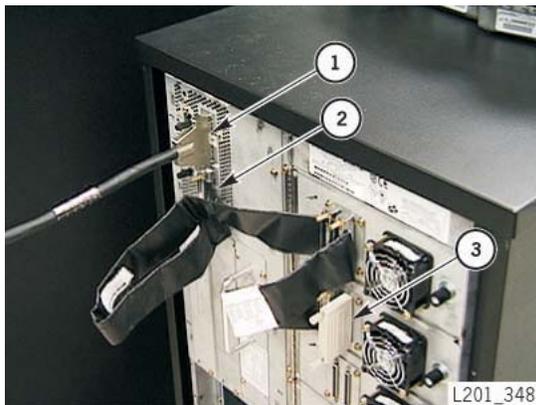
Initialization fault: You *must* keep the personality module and reattach it to the replacement library.

22. Remove the personality module from its connector.



1. Personality module

23. Disconnect the SCSI client server cable, SCSI cable, and SCSI terminator from the rear of the library.



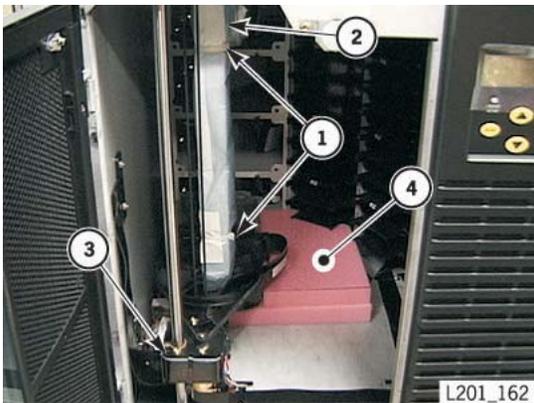
1. SCSI client server cable
2. SCSI cable
3. SCSI terminator

24. Remove all the cartridges.

CAUTION:

***Shipping damage:* When you pack your library for shipment, you must correctly install the shipping foam and cushions to receive proper credit for your returned library. If you no longer have the original unpacking material, use the material from your replacement library.**

25. Lift the hand to the top of the library.
 26. Place the packing cushion (that you will later secure around the rear Z shaft) under the Z carriage to hold the hand at the top.
-
27. Place the hand foam in the bottom of the library so that the higher part is to the right and slightly under the lowest cells, as shown in the picture. The shallow part will be flush against the left wall of the library.
 28. While holding the hand, remove the cushion from under the Z carriage, and lower the hand and turn it until it is directly in front of the drive slots. The right side of the hand will fit into the foam groove.
 29. Wrap the packing cushion around the rear Z shaft, and secure the foam with tie wraps.



1. Tie wraps
2. Packing cushion around the Z shaft
3. Z carriage
4. Hand foam

30. Close and lock the door.

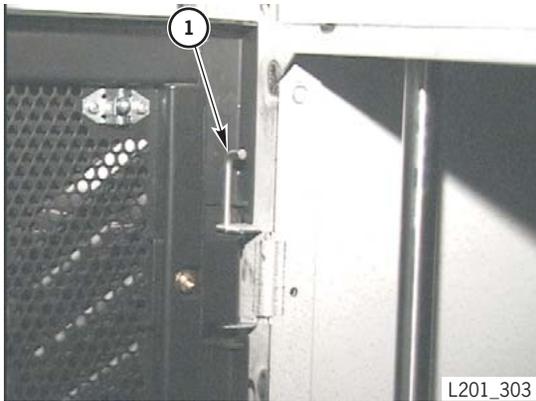
If you are replacing a deskside version, see [Figure 1-1 on page 1-10](#) and its callout list to continue packing the library. See [Chapter 2](#) for instructions about returning the library.

If the library is in a rack, continue to the next step.

You must remove the door and one decorative cover to access the holes in the frame.

31. Hold the door *firmly* with your left hand, and remove the two hinge pins.

Note: Remove the bottom pin first, to make it easier to balance the door while holding it.



1. Hinge pin (2)

32. Set the door aside.

33. Remove the top right decorative cover over the operator panel by grasping the *top* of the cover and gently pulling it away from the operator panel. The snap pins will disconnect from the holes in the frame.



1. Decorative cover
2. Snap pins

34. Remove the four screws and screw nut clips securing the library to the rack.

1. Screw (4)



35. Reattach the decorative cover.

36. Reattach the front door.

Note: Install the top pin first, to make it easier to balance the door while holding it.

37. Close and lock the door.

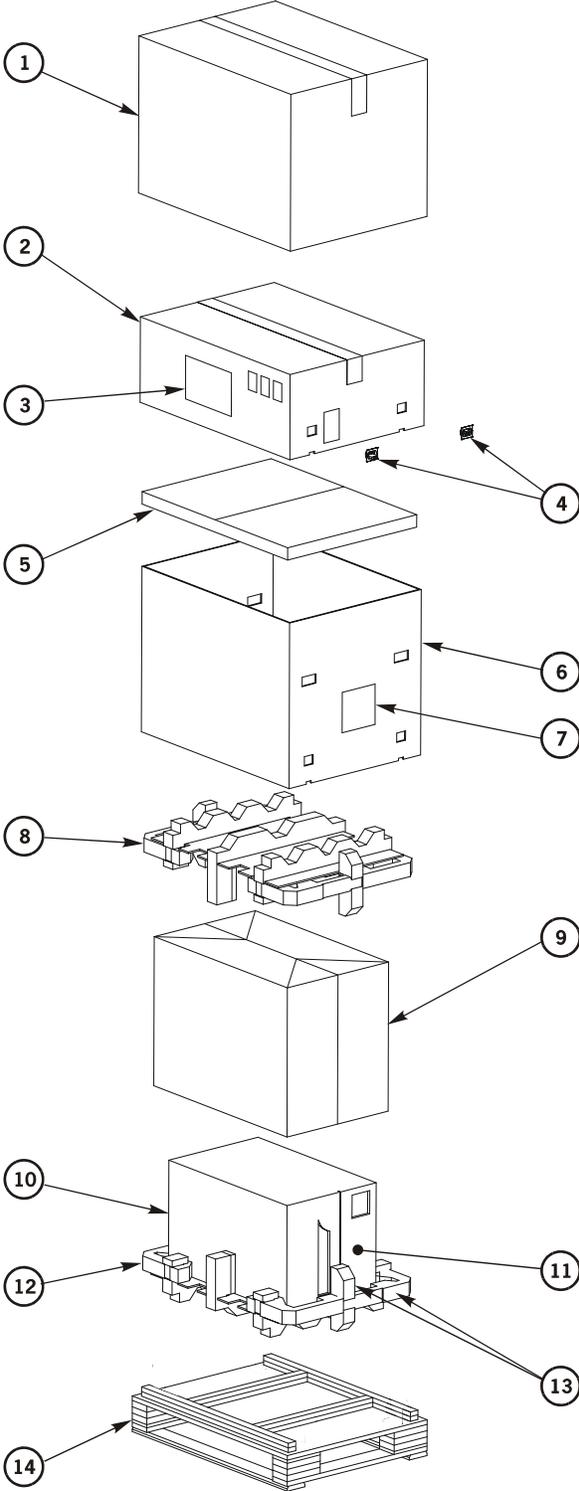
WARNING:

Possible personal injury: Use a mechanical device to lift and position the library. The library weighs approximately 44.45 kg (98 lb).

38. Remove the library from the rack and place it on a sturdy surface.

39. See [Figure 1-1 on page 1-10](#) and its callout list to continue packing the library. Start from the bottom, with callout 14, and continue moving up. See [Chapter 2](#) for instructions about returning the library.

Figure 1-1. Packing the Library (L201_158)



L201_158

Figure 1-1. Packing the Library (Continued) (L201_158)

-
1. Outer Container
 2. Container cap
 3. Logo label
 4. Container locks (Hold so the protruding part is on top. Squeeze the ears and lift the locks to secure them into the openings.)
 5. Accessory container
 6. Sleeve
 7. Bar code label
 8. Top cushion assembly
 9. Bag
 10. Library
 11. Internal bracing items
 12. Bottom cushion assembly
 13. Front and rear rail
 14. Pallet
-

■ Installing the Replacement Library

To install the replacement library, follow the instructions in *L40 Tape Library Installation Manual*, 96053.

To configure the library, follow the instructions in *L40 Tape Library User's Guide*, PN 96005.

Notes: Remember to install the cartridges, external cables, personality module, and drive trays into the replacement library.

Always install drives trays by starting at the empty slot nearest the top and working downward. From a software viewpoint, the drive numbers are assigned from top (0) to bottom (3). By adding drives in this order, the client software will correctly reflect the drives previously installed.

When you install the drive trays into the replacement library, slide the drive tray into the empty slot and turn the drive tray latch to your right. Make sure the tray is securely latched by pulling back on the tray. It should not move.

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Return Shipment

2

Note: The CRU does not include the drives, cartridges, external cables, or personality module. Do *not* return them with your shipment.

CAUTION:

Shipping damage: To ensure proper credit for the returned CRU, you must package the CRU correctly, and you must write your RMA (return material authorization) number (obtained from the invoice/packing list) and returned product serial number on the outside of the packaging.

Use the original packing material or, if you no longer have the material, use the CRU shipping material and box to carefully pack the defective CRU for return shipment.

Refer to your *L20/40/80 Tape Library Warranty Agreement* for the procedures to return drives:

- For *European* customers, refer to your warranty instructions for the address to return parts.
- For *United States customers only*: Arrange a pick-up with Associated Global Systems by calling **1.720.858.0500**.

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Reader's Comment Form

Contact Us

Submit your questions, comments, and suggestions to StorageTek's Global Learning Solutions. We appreciate your correspondence and are committed to responding to you.

Publication Information

Publication Name:

Publication Part Number:

Questions and Comments:

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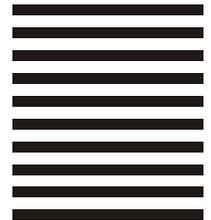


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Storage Technology Corporation
One StorageTek Drive
Louisville, CO 80028-3256
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ABOUT STORAGETEK®

StorageTek® (NYSE:STK), a \$2 billion world-wide company with headquarters in Louisville, Colo., delivers a broad range of storage solutions for digitized data.

StorageTek solutions are easy to manage and allow universal access to data across servers, media types and storage networks. StorageTek is the innovator and global leader in virtual storage solutions for tape automation, disk storage systems and storage networking. Because of StorageTek, customers can manage and leverage their digital assets as their businesses grow, and can maximize IT productivity to ensure enterprise-class business continuity.

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