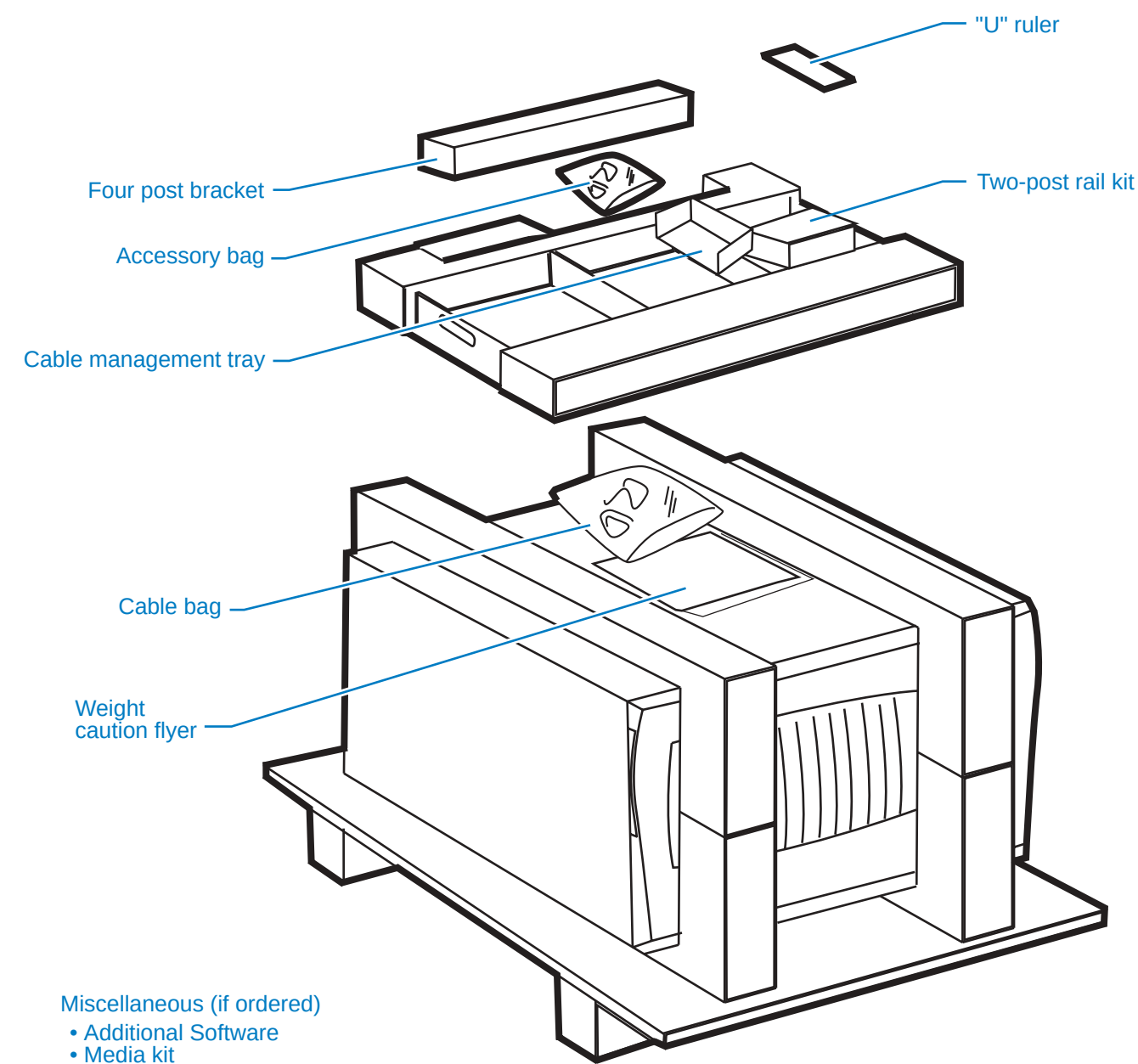




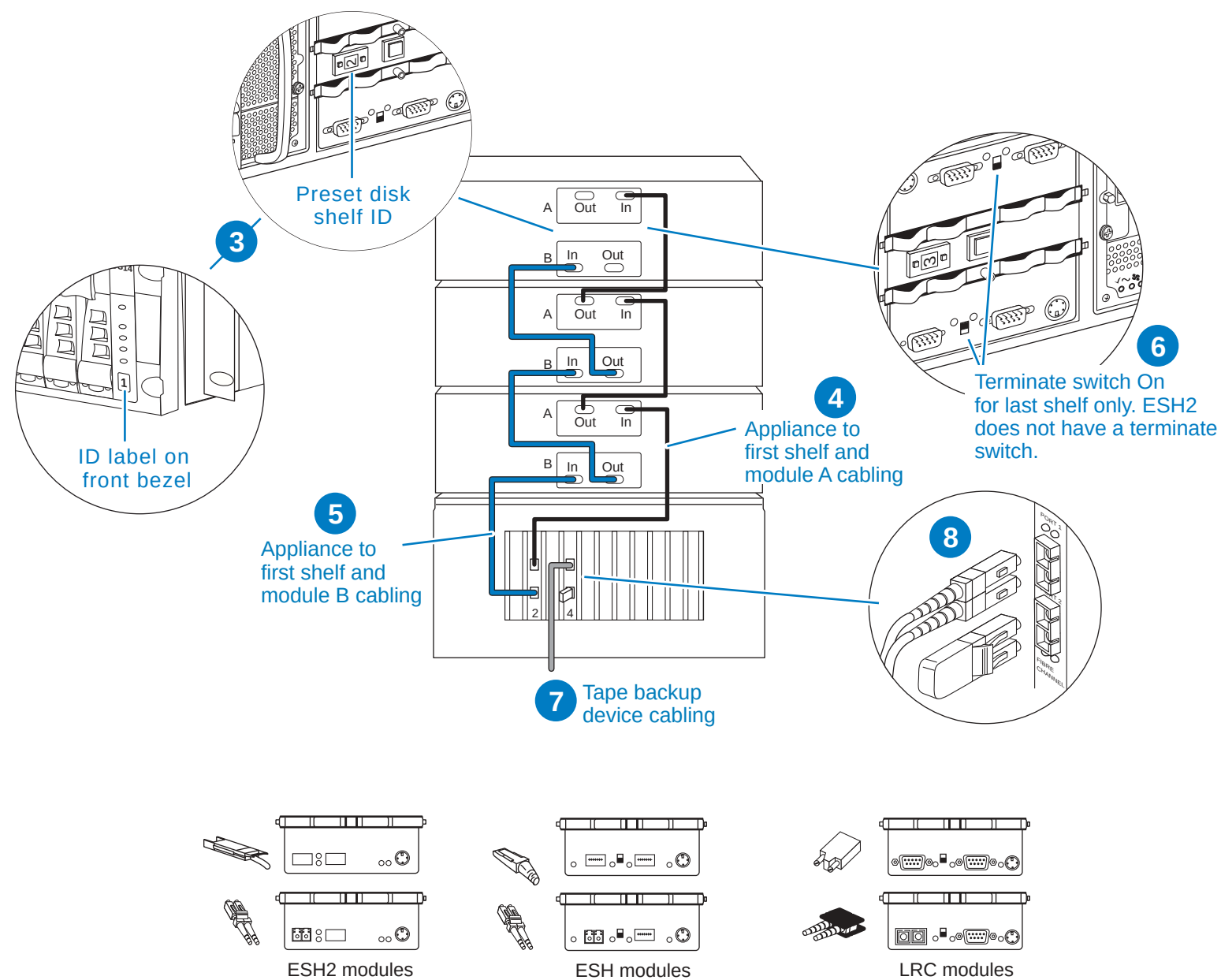
Installation and Setup Instructions for NetApp FAS900 Series Storage Appliances

Complete NetApp documentation is available from the NOW site at <http://now.netapp.com>. You can view the manuals online, print them locally, or order them.

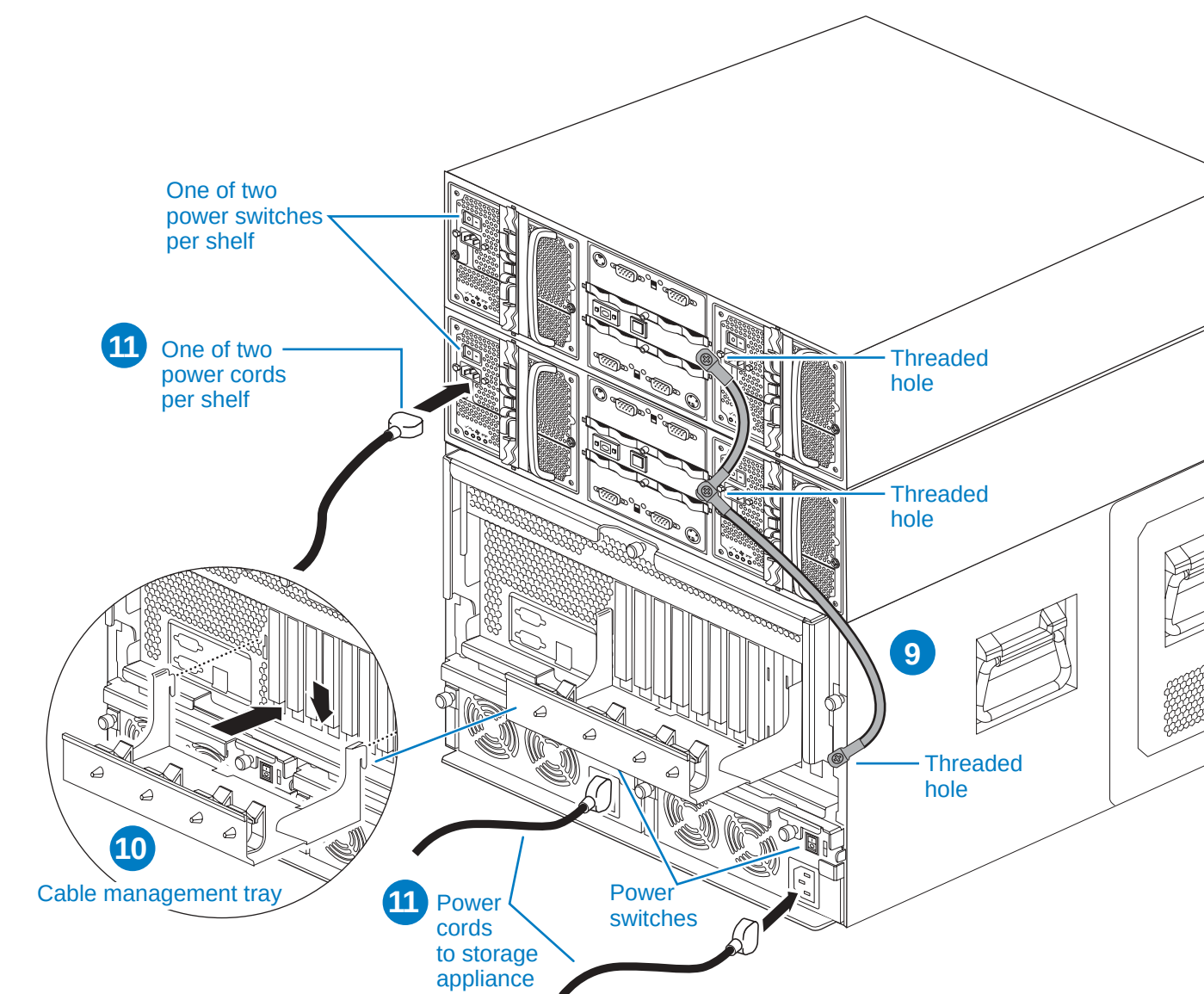
Contents Shipped



Part No. 210-00714+A0



1. Use the Rack Installation Flyer in the rail kit box to install the appropriate rail kits on the rack.
2. Install your appliance and the first disk shelf (ID 0 for FC7, FC8, FC9, and ID1 for DS14 series) into the rack. Your appliance might not support all disk shelf models. Verify disk shelf compatibility by checking the System Configuration Guide at <http://now.netapp.com>.
3. Install the other disk shelves in consecutive order. The preset IDs on the disk shelves must match the corresponding labels on their front bezels. If necessary, reset the disk shelf IDs.
4. Connect your appliance to the module A Input on the first shelf, and then connect the module A Output on the first shelf to the module A Input on the next shelf, and so on.
5. Connect your appliance to the module B Input on the first shelf, and then connect the module B Output on the first shelf to the module B Input on the next shelf, and so on.
6. Ensure that all terminate switches are off except on the last shelf, which must be on. Note that the ESH2 is self-terminating and has no terminate switch.
7. Install and connect a third-party Fibre Channel or SCSI tape backup device, if applicable.
8. Use a loopback plug for empty optical FC-AL ports.



Booting your system for the first time

To boot your system for the first time, complete the following steps:

1. Check that your system is properly set up and grounded. Make sure that the disk shelf IDs are properly set, where applicable.
Note: For more information about cabling and configuring your system as an FCP target in a Fibre Channel fabric, see the *SAN Setup Overview for FCP*. Make sure that your switch is powered on and configured before you turn on your system.
2. Turn on the power to any switches, then turn on the disk shelves within 5 minutes of each other, then turn on any tape backup devices.
3. Turn on the power to the appliance.
Result: The system begins to boot, and then it stops at the first installation script question, which is displayed on the console.
4. Go to the system console and answer the displayed questions, using the information you

gathered and entered in the "System setup information worksheet" in the *Site Requirements Guide*.

Note: When you encounter the time zone question, you can press Enter to accept the default setting, if you do not know how to set the time zone. You can then manually set the time zone after you complete the initial setup. See the Timezone Man page for more information.

5. Check the licenses on your system by entering the following command: `license`
Add any missing licenses by entering the following command for each missing license:
`license add xxx`
`xxx` is the license code for the product.
6. Continue with post-setup configuration as needed, using the manuals listed in the following table.

Where to go for more information

For information about...	Go to http://now.netapp.com for...
New features, enhancements, known issues, and late-breaking news for your version of Data ONTAP™ software	The Release Notes for your version of Data ONTAP
Managing all aspects of your system	The documentation for your version of Data ONTAP
Configuring and managing the iSCSI protocol, and creating and managing LUNs and initiator groups with the iSCSI service	The <i>Block Access Management Guide for iSCSI</i>
Setting up your system in a Fibre Channel SAN environment	The <i>SAN Setup Overview for FCP</i>
Configuring a cluster	The <i>Cluster Guide</i> The <i>Data Protection Guide</i>
Configuring and managing the FCP protocol, and creating and managing LUNs and initiator groups with the FCP service	The <i>Block Access Management Guide for FCP</i>
The most current information on your system hardware	The Hardware Information Library page
Hardware configuration options available for your system	The System Configuration Guide for your version of Data ONTAP
Troubleshooting the system	Hardware and Service Guide
Testing field-replaceable units and diagnosing and correcting system hardware problems	NetApp Hardware Diagnostics Guide

Troubleshooting tips

If your appliance does not boot when you power it on, follow these troubleshooting tips in the given order:

1. Look for a description of the problem on the LCD and console. Follow the instructions, if provided, on the LCD and console.
2. Check all cables and connections, making sure that they are secure. Insert a loopback into any empty optical FC-AL ports.
3. Ensure that power is supplied and is reaching your appliance. Check the LEDs above the power cords. They should be green.
4. Check the power supplies on your appliance and disk shelves. If the LEDs on a power supply are not illuminated, remove the power supply and reinstall it, making sure that it connects with the backplane.
5. Verify disk shelf compatibility and check the disk shelf IDs:
 - a. Disk shelf 0 (for FC7, FC8, FC9) or disk shelf 1 (for DS14 series) must be connected to your appliance.
 - b. All other disk shelves must have unique IDs (between 2 and 7) and must be placed in consecutive order.
6. Ensure that the shelf speed is correct:
 - DS14mk2 FC with LRCs, set to 1 Gb
 - DS14 and DS14mk2 FC mixed in the same loop, set to 1 Gb regardless of module type
 - DS14mk2 FC with ESH/ESH2, set to 2 Gb, or 1 Gb, if desired
7. Turn off your appliance and disk shelves, and then turn on the disk shelves. Check the quick reference card that came with the disk shelf for information about LED responses.
8. Use the onboard diagnostics to check the disks:
 - a. Turn on your appliance. Enter `boot diags` at the system console prompt.
 - b. Enter `fcsl` in the Diagnostic Monitor program that starts at boot.
 - c. Enter `73` at the prompt to show all disk drives.
 - d. Exit the Diagnostics Monitor by entering `99` at the prompt.
9. If your appliance does not boot successfully, it might not have the boot image downloaded on the CompactFlash™ card. Call NetApp Global Services at +1(888)4-NETAPP.



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