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Extension Kit for the Compaq Rack 7142

Abstract: This document discusses the benefits of adding an Extension Kit for the Compaq Rack 7142.

Benefits of using a Compaq Rack 7142 include:

- An increase in depth
- An increase in ventilation when using high-performance servers
- Increased accessibility for cable management

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Extension Kit for the Compaq Rack 7142
Installation Guide prepared by Storage Products Division

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Extension Kit

The Extension Kit for the Compaq™ Rack 7142 is a steel collar that attaches to the front or rear of the Compaq Rack 7142. This provides space in the rack for large equipment and cable management. The Extension Kit includes two identical collars that attach to either the front or the back of the rack cabinet. Since the extenders are interchangeable, one collar can be attached to the front of the rack only, to the rear of the rack only, or both ends of the same rack. Additionally, customers may attach the extenders that come from the one kit to the rear of two separate Rack 7142 cabinets.

Defining the Need

The Extension Kit accommodates Compaq AlphaServers and other high-performance servers when installed in a Rack 7142. The installation of the Extension Kit to a Rack 7142 provides:

- Improved space—Each collar that is installed provides an additional 3.5 inches of depth to the Compaq Rack 7142.
- Cable management—Access to cables is improved.
- Increased ventilation—Ventilated collars increase the amount of airflow through the rack.
- Value—The cost of purchasing new racks to accommodate high-performance servers is eliminated.

Compaq Products

Compaq products are designed for use in environments where performance and quality matter the most. The Extension Kit helps to combine the efficiency of Compaq AlphaServer systems with the construction benefits of the Compaq 7000 series of storage racks.

Compaq Rack 7142

The Compaq Rack 7142 is an industry-standard enclosure for rack-mountable products and is designed with maximum protection in mind. Features of the Rack 7142 include:

Sturdy Steel Construction—A fully welded steel frame provides rigidity and stability. The Compaq Rack 7142 has an 1,800-pound (817.2 kilogram) load capacity.

Maximum Performance in Coupled Environments—The Compaq Rack 7000 series features a sophisticated coupling mechanism that uses rails and bolts to maximize stability in coupled configurations. A dust strip keeps equipment clean.

Compaq AlphaServers

Compaq server platforms offer optimum availability, scalability, performance, and cost benefits to enable the most comprehensive Enterprise-level solutions. Compaq AlphaServer systems are proven performance leaders, powered by Alpha processors.

Compaq AlphaServer ES40

The Compaq AlphaServer ES40 features up to four processors, 16 GB of memory, high performance 64-bit PCI I/O, and robust high availability. With the Compaq Partners program, a wide range of applications are available at significant savings.

The Compaq AlphaServer ES40 system offers:

- Choice of one to four new generation 500 MHz Alpha 21264 processors
- A 2x boost in application performance right out of the box without recompiling
- Up to 16 GB of Error Checking and Correcting (ECC) memory to accelerate database applications
- Advanced 5.2 gigabytes per second memory cross-bar switch architecture for fast, consistent application response times
- Support for Tru64 UNIX, OpenVMS, and Linux operating systems
- Full warranty with global service and support

Benefits Summary

With the increased demand on mainframe performance by the applications of today, Compaq provides a solution that makes the best use of space at a lower cost. The Compaq Extension Kit provides the additional space that today's high-performance systems need. By combining the performance of a Compaq AlphaServer with the functionality of the Compaq 7142 Rack, the client has the environment to perform any task.

The Extension Kit for the 7142 Rack provides:

- Additional space to accommodate Compaq AlphaServers or other equipment
- Improved airflow
- Additional space for cable management
- Two interchangeable collars
 - Install one collar to the front and one to the back of a single rack
 - Install one collar to either the front or back of one or two racks
- Lower cost than purchasing a new rack to accommodate high-performance servers such as the Compaq AlphaServer ES40

Note: Each Extension Kit contains two collars. Two racks can be modified with the contents of one kit.

Contact Us

For comprehensive online support, refer to:

<http://www.compaq.com/>

For international information, refer to:

http://www.compaq.com/corporate/overview/world_offices.html

For a list of Compaq products, refer to:

<http://www.compaq.com/showroom/>

Table 1. Departments and Telephone Numbers for the United States and Canada

Department	Telephone Number(s)
Consumer Direct	1-800-888-0220
Compaq DirectPlus	1-800-888-5858 (U.S.)
Compaq Partner Direct	1-800-888-5874
Compaq Reseller Locator	1-800-345-1518 (Option 3)
Compaq Canadian Reseller Locator and Product Literature	1-800-567-1616
Diskette Fulfillment (backup diskettes for preinstalled software)	1-800-952-7689 (U.S.) 1-800-349-8498 (Canada)
Compaq Product Information	1-800-345-1518 (U.S.) 1-800-567-1616 (Canada)
Compaq Technical Support	1-800-OK-COMPAQ (U.S. and Canada) 1-800-652-6672

Appendix A

These installation instructions describe the installation of a single collar on a Compaq Rack 7142. The instructions are the same for installing the collar on the front or the rear of the rack.

Installing the Extension Kit

1. Press the upper and lower door hinge releases  and pull the door away from the Compaq Rack 7142 .

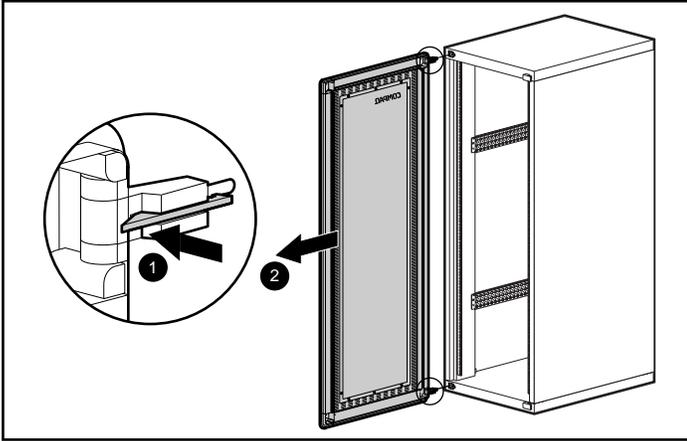


Figure 1: Removing the door from the Compaq Rack 7142

2. Pull out the two door latches from the upper and lower portion of the frame.

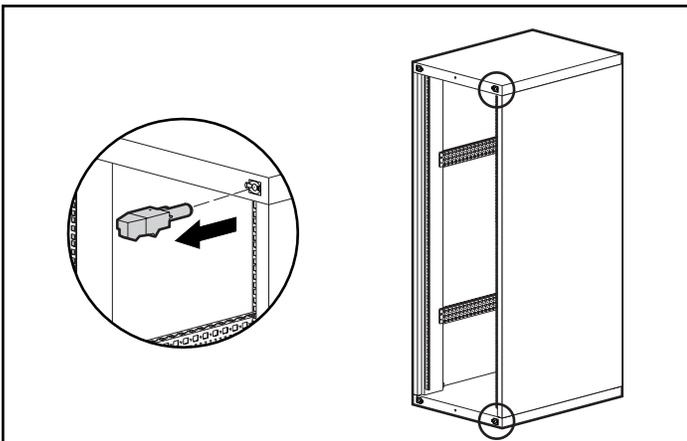


Figure 2: Removing the door latches

3. Align a spacer top assembly  with the top of the 7142 Rack. Secure the spacer top assembly with two ¼-inch 20 UNC bolts .

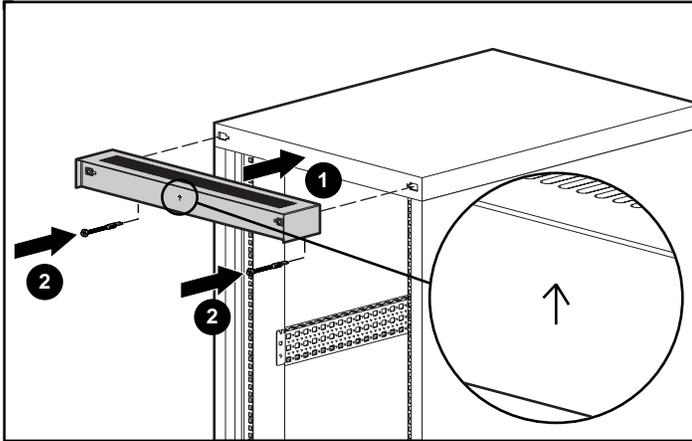


Figure 3: Installing the spacer top assembly

Note: The spacer top assembly has an arrow indicating the upright position.

4. Align a spacer bottom assembly  with the bottom of the 7142 Rack. Secure the spacer bottom assembly with two ¼-inch 20 UNC anchor bolts .

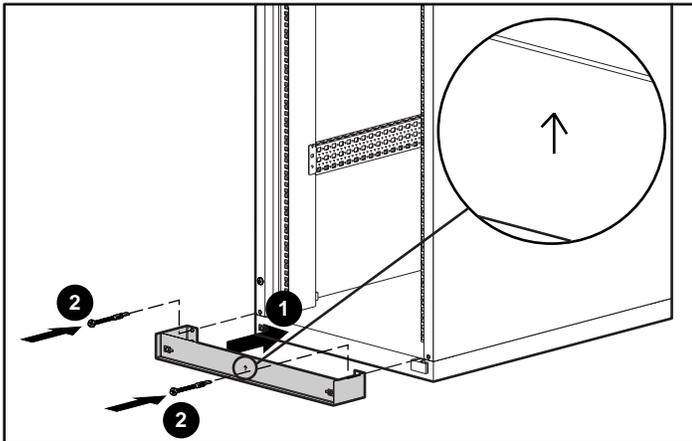


Figure 4: Installing spacer bottom assembly

Note: The spacer bottom assembly will have an arrow indicating the upright position.

5. Remove the two hinge-side screws from the frame. These screws will be used in the next step.

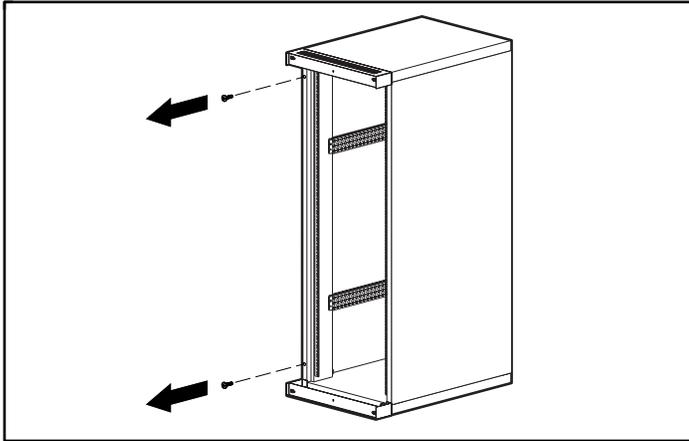


Figure 5: Removing the hinge-side screws

6. Attach a vented spacer fixed side panel to the hinge-side of the Compaq Rack 7142. Secure the vented spacer fixed side panel with the two hinge-side screws removed in Step 5.

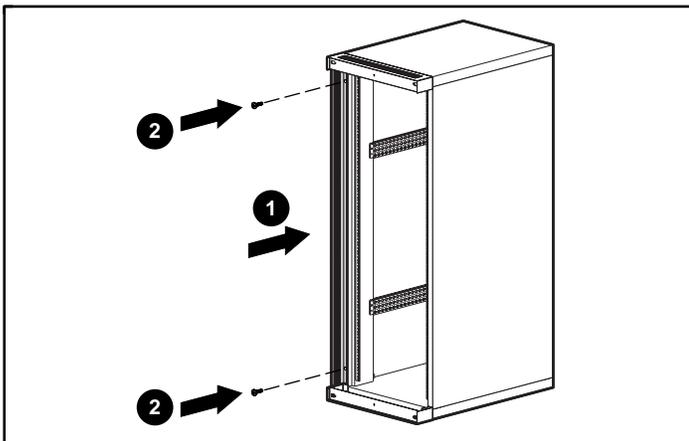


Figure 6: Installing the vented spacer fixed side panel

7. Attach a vertical vented spacer to the inner, left side of the door of the Compaq Rack 7142. Secure the vertical vented spacer with two M6x16 Phillips pan head screws.

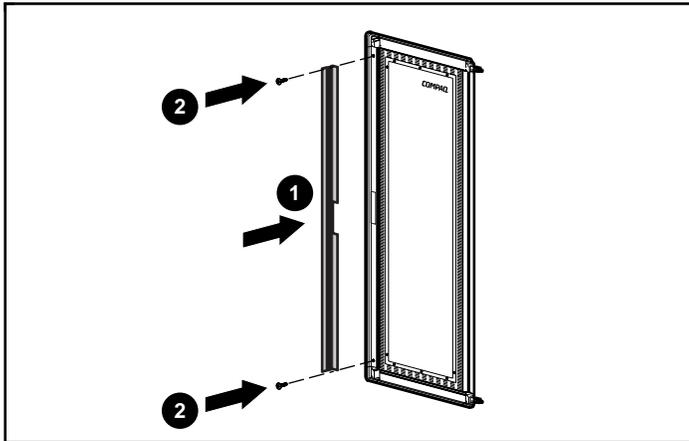


Figure 7: Installing the vertical vented spacer to the door

8. Install two Tinnerman clips to the inner side of the door at the door lock.

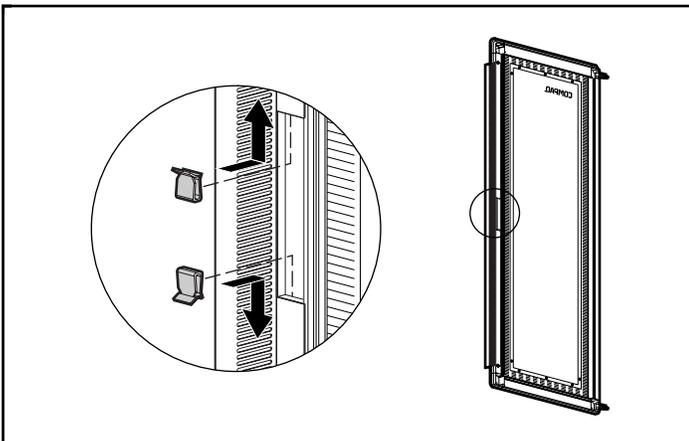


Figure 8: Installing door clips

9. Reinstall the upper and lower door latches from Step 2.

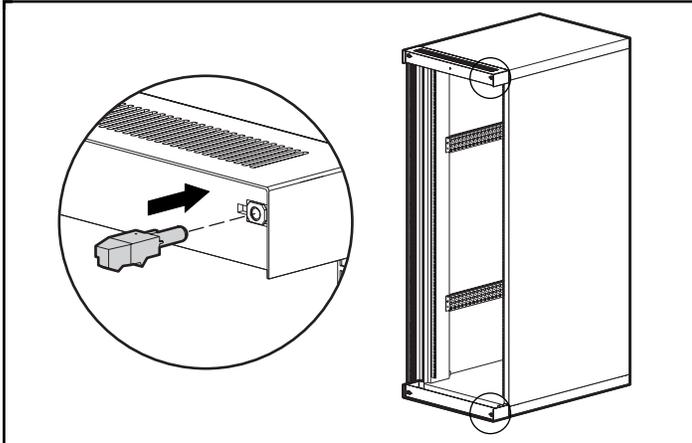


Figure 9: Reinstalling door latches

10. Reattach the door to the Compaq Rack 7142, ensuring that the hinges lock firmly in place.

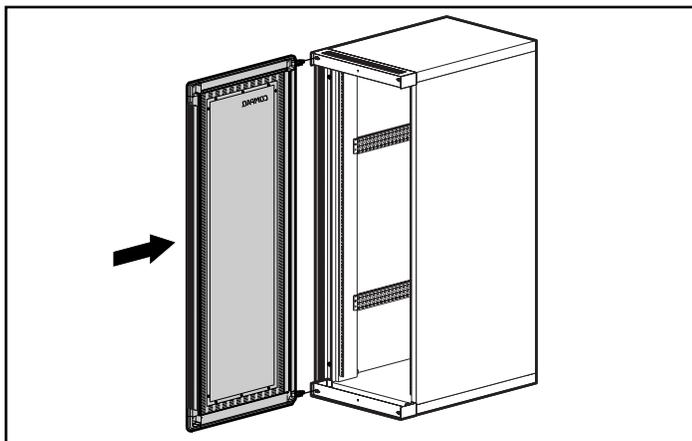


Figure 10: Reattaching the door

Appendix B

The Extension Kit for the Compaq Rack 7142 includes two complete collars and their hardware. Refer to Table 2 for the parts list for the Extension Kit.

Table 2. Rack Extension Kit Parts List

Description	Quantity
Top assembly collar	2
Bottom assembly collar	2
Vented spacer fixed side panel	2
Vertical vented spacer	2
Extension clips	6
M6 X 16 Phillips pan head screws	6
Tinnerman clips	6
¼"-20 UNC anchor bolts	10
¼"-20 Hex nuts, stainless steel	10
¼" Flat washers, stainless steel	10