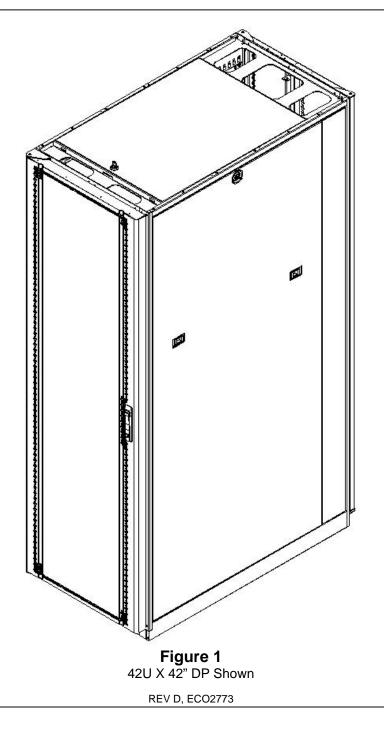


ID-00210-000



Enclosure Installation Guide 37U Cabinet (37"DP / 42"DP) 42U Cabinet (37"DP / 42"DP) 45U Cabinet (37"DP / 42"DP)



Page 1 of 46

Proprietary Information of SharkRack, Inc. 32920 Alvarado-Niles Rd Suite 250, Union City, CA 94587 510-477-7900 • 510-324-1664 • www.sharkrack.com

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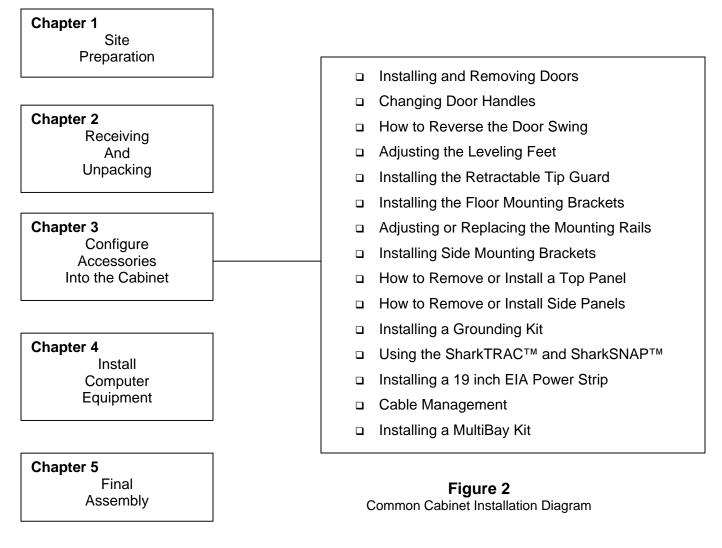
Introduction

Thank you for buying a SharkRack computer cabinet. The SharkRack family of computer cabinets has been designed with great care and made with the highest quality materials to provide you with many years of satisfactory use. The SharkRack cabinet provides a top of the line cabinet with features that make installation, management, and ongoing maintenance fast, easy, and safe. We sincerely hope you enjoy using your SharkRack cabinet and we always welcome your feedback. If you have technical questions about any aspect of installing or using your computer cabinet, please call us at 87-SHARKRACK (877-427-5722).

SharkRack intends this manual to guide you through a smooth cabinet installation. SharkRack assumes that you are qualified in the servicing of computer equipment and trained in recognizing hazards in products with high energy levels. SharkRack also assumes you are qualified to move heavy pieces of equipment. All the instructions here are presented in great detail.

This document contains general installation instructions for the various SharkRack cabinet configurations and many of the common optional devices that can be installed into a SharkRack cabinet. Always consult the documentation that comes with your computer product or accessory for detailed installation instructions.

The following diagram shows an overview of a common cabinet installation.



Symbols in Text



WARNING: Text set off in this manner indicates that failure to follow directions in the warning could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

Note: Text set off in this manner presents commentary, sidelights, or interesting points of information.

Important Safety Notes For Installation

Note:

The information contained in this document is subject to change without notice.

SharkRack makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

SharkRack shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

SharkRack assumes no responsibility for the use or reliability of the software or hardware installed into a SharkRack cabinet.

Pictures in this manual represent a typical configuration. Your actual configuration may vary.

WARNING:



Always install a stabilizing/anti-tip device such as Floor Mounting Brackets or a Retractable Tip Guard.

Always install the UPS (uninterruptible power supply) in the bottom of the rack.

Always install the heaviest equipment in the bottom of the rack.

Always install servers and power devices in the rack from the bottom to the top.

Do not extend more than one sliding device at a time.

The center of gravity for an extended unit cannot exceed 16 inches from the face of the cabinet. If an extended device exceeds this distance, the configured cabinet might be unstable.

The maximum allowable weight for devices on slides is dependent upon the specific slide. Do not install sliding devices exceeding maximum allowed weight.

WARNING (CONT.):



Plug cabinet power cords into electrical outlets that are located near the cabinet and are easily accessible.

Connect all devices installed in a rack to power devices installed in the same cabinet. Do not plug into a power device installed in a different cabinet.

Check the equipment power rating before plugging into a cabinet power device. Check that both the voltage range and current draw are within the limitations of the power device. The voltages of the power device receptacles are typically equal to the voltages of the UPS or AC source.

To avoid overloading, check the total input current rating of the equipment being connected to a power device to ensure that it does not exceed the maximum rating of the power strip or any UPS to which it may be connected.

Each installed server or other device might have more than one power cord. Be sure to disconnect all power cords in the cabinet before servicing any device in the cabinet.

CAUTION:



Removing components from the top portion of the rack improves cabinet stability during relocation. Follow these general guidelines whenever you relocate a populated cabinet within a room or building:

Reduce the weight of the rack by removing equipment starting at the top of the rack. When possible, restore the cabinet to the configuration as you received it. If this is not possible or the configuration is unknown, remove all devices in the 11U position and above before moving the cabinet.

Inspect the route that you plan to take and eliminate any potential hazards.

Verify that the route that you choose to move the rack cabinet can support the weight of the loaded rack cabinet, which may exceed 2500 lbs.

Verify that all doorways can accommodate the cabinet.

Ensure that all devices, drawers, doors, and cables are secure.

Ensure that all leveling feet are raised to their highest position.

Ensure that the floor mounting brackets are removed (see Figure 6).

Once the cabinet is in its new location, repopulate the cabinet from the lowest position to the highest position.

If long distance relocation is required, pack the cabinet in the original packaging material, or equivalent. Also, use the floor mounting brackets to bolt the cabinet to the pallet.

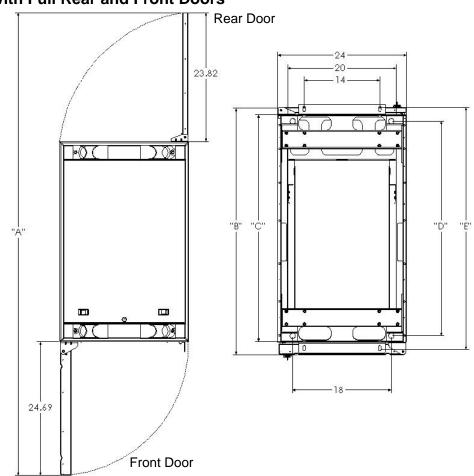
Chapter 1 Site Preparation

Check Facility Provisions

Ensure that the following conditions are met:

- Floor is level and of sufficient strength to support the rack and your equipment. At maximum gross weight, the floor must be able to support 1000 lb/in².
- A qualified professional should complete site electrical power supply set-up. Ensure the types of outlets are consistent with the type of plugs on the power devices to be used.
- Check with a qualified HVAC technician to make sure the environment will support the heat load of the products being installed in the cabinet.
- Select a location for the cabinet that will allow adequate space for the door to open freely and slide-mounted equipment to be extended.
- Check that the site can accommodate the cabinet footprint and mounting locations according to the illustrations in Figure 3 and Figure 4.

Rack Cabinet Footprint and Mounting Locations for:



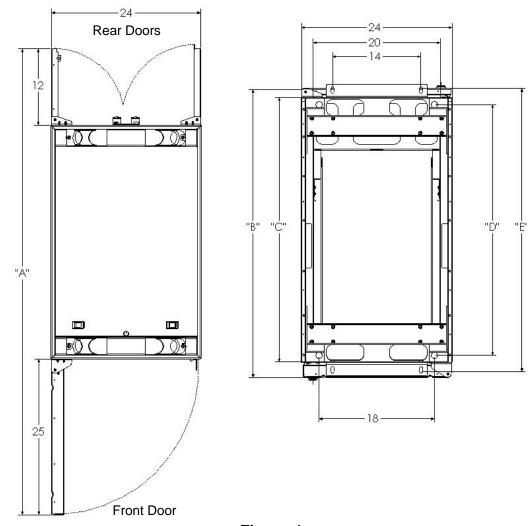
Cabinet with Full Rear and Front Doors

Figure 3 42U X 37DP (TOP VIEW) and 42U X 42DP (BOTTOM VIEW) Shown

Cabinet Dimensions				
DIM 37" CABINET 42" CABINET 45" CABINE				
A	86"	91"	82"	
В	41"	46"	49"	
С	37"	42"	45"	
D Leveling Feet	35"	40"	43"	
E Floor mounting brackets	38" or 40"	43" or 45"	46" or 48"	

T	а	b	le	1

Rack Cabinet Footprint and Mounting Locations for:



Cabinet with Split Rear Door

Figure 4 42U X 37DP (TOP VIEW) and 42U X 42DP (BOTTOM VIEW) Shown

Table	2
-------	---

Cabinet Dimensions					
DIM	37" CABINET 42" CABINET 45" CABINET				
A	74"	79"	82"		
В	41"	46"	49"		
С	37"	42"	45"		
D Leveling Feet	35"	40"	43"		
E Floor mounting brackets	38" or 40"	43" or 45"	46" or 48"		

Chapter 2 Receiving and Unpacking

Check package and receiving area

- Verify contents and condition.
- Move the packaged cabinet on its pallet as close to its final destination as possible.
- Be sure there is enough room to unload the cabinet from its packaging. In front of the pallet, it requires at least 7 feet for standard packaging (with or without pallet) and 13 feet for integration (crate) packaging to unload the cabinet.
- Many SharkRack cabinets come on casters, which allow the cabinet to be rolled to its destination after unpacking.

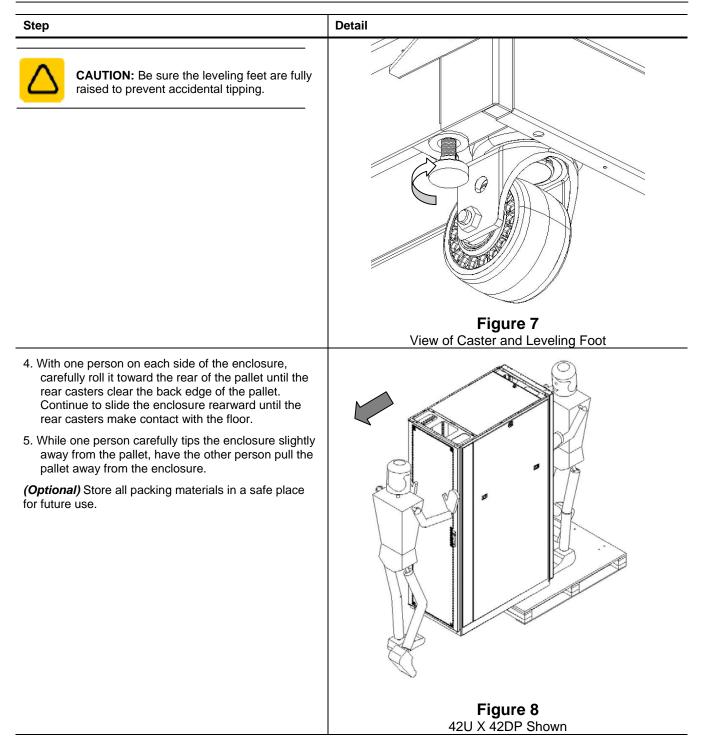
Note:

Ensure clear passage from the receiving site to the uncrating site. Do not lift an unpackaged cabinet with a forklift. Do not move the packaged cabinet without adequate assistance. Be sure leveling feet are raised before rolling to prevent tipping or damage to the feet.

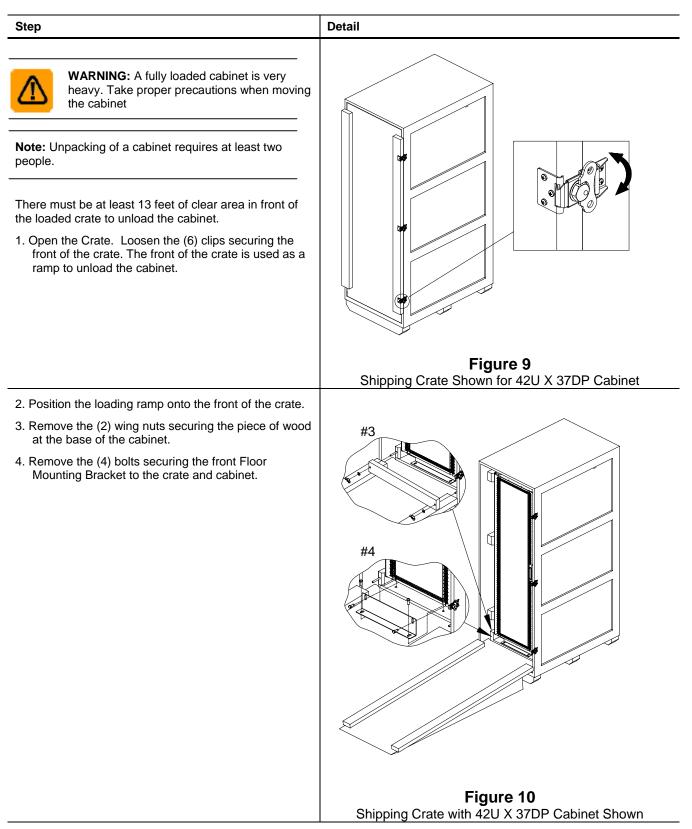
Unpacking Instructions- Standard Packaging

Step	Detail
Note: Unpacking of a cabinet requires at least two people. There must be at least 7 feet of clear area in front of the loaded pallet to unload the cabinet. 1. Unwrap packaging material from around the cabinet	
	Figure 5 42U X 42in DP Shown
 Remove the (4) bolts securing the front Floor Mounting Bracket to the pallet and cabinet. 	
3. Repeat Step 2 for the rear Floor Mounting Bracket	
	Figure 6 42U X 42in DP Shown Removal of Floor Mounting Bracket.

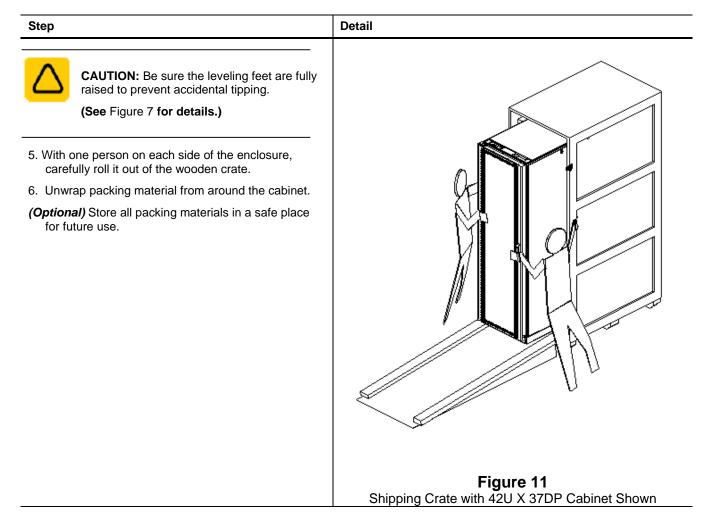
SharkRack Enclosure Installation Guide



Unpacking Instructions- Integration Packaging



Unpacking Instructions- Integration Packaging (cont.)



Chapter 3 Configure Accessories into the Cabinet

Configure Optional Accessories

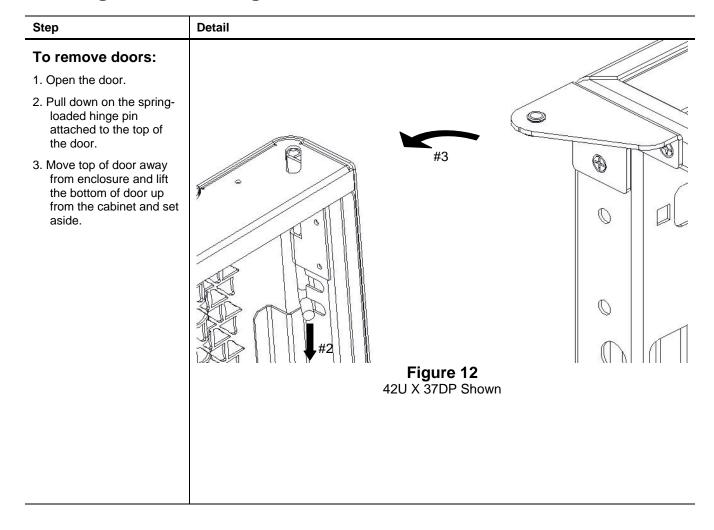
The SharkRack cabinet can be configured using multiple optional accessories. The configuration depends on your specific application and may vary from cabinet to cabinet. The following list of processes is organized to help guide you through the typical steps of configuring optional accessories. Since each configuration is different, some processes may be excluded. Also, some processes will refer back to previous processes.

- Installing and Removing Doors
- Changing Door Handles
- How to Reverse the Door Swing
- Adjusting the Leveling Feet
- Installing the Retractable Tip Guard
- Installing the Floor Mounting Brackets
- Adjusting or Replacing the Mounting Rails
- Installing Side Mounting Brackets
- How to Remove or Install a Top Panel
- How to Remove or Install Side Panels
- Installing a Grounding Kit
- Using the SharkTRAC[™] and SharkSNAP[™]
- Installing a 19 inch EIA Power Strip
- Cable Management
- Installing a MultiBay Kit

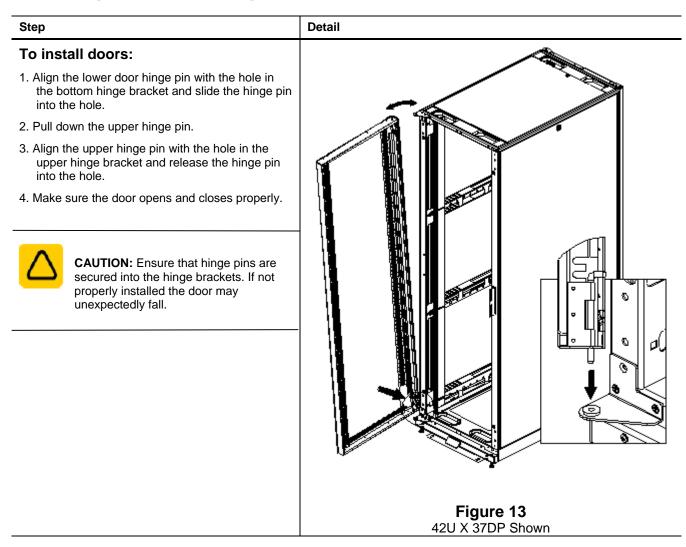
Tools Required for Cabinet setup:

- #2 Phillips Screwdriver
- 1/2" 9/16" Open End Wrench (Included with leveling foot kit)
- 9/16" Hex Socket and Ratchet with 3" Extension Bar (Optional)
- Straight Blade Screwdriver (Optional for adjusting the leveling feet)

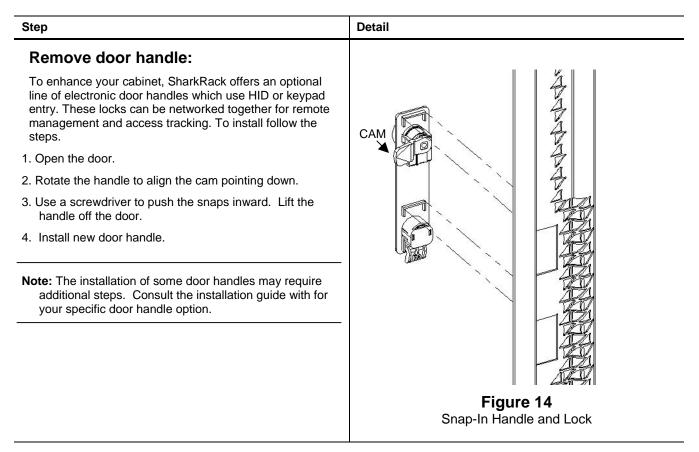
Installing and Removing Doors



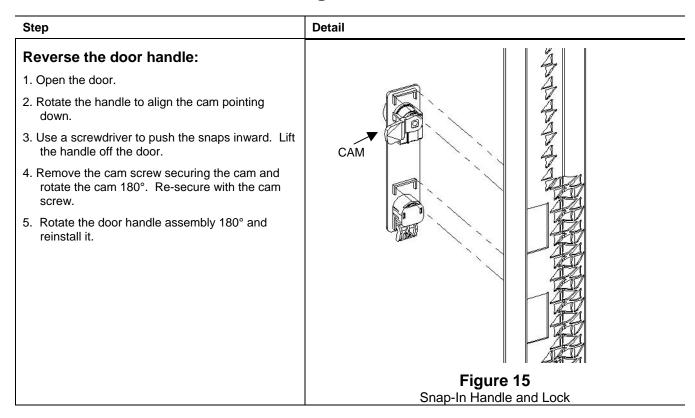
Installing and Removing Doors (cont.)



Door Handles



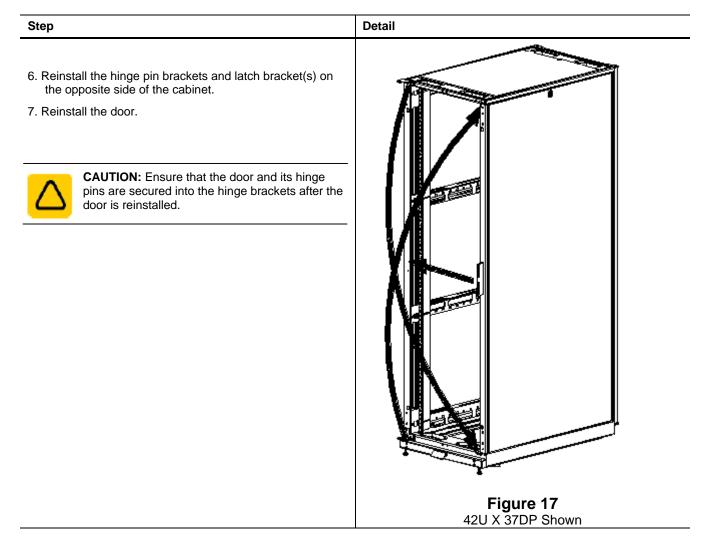
How to Reverse the Door Swing



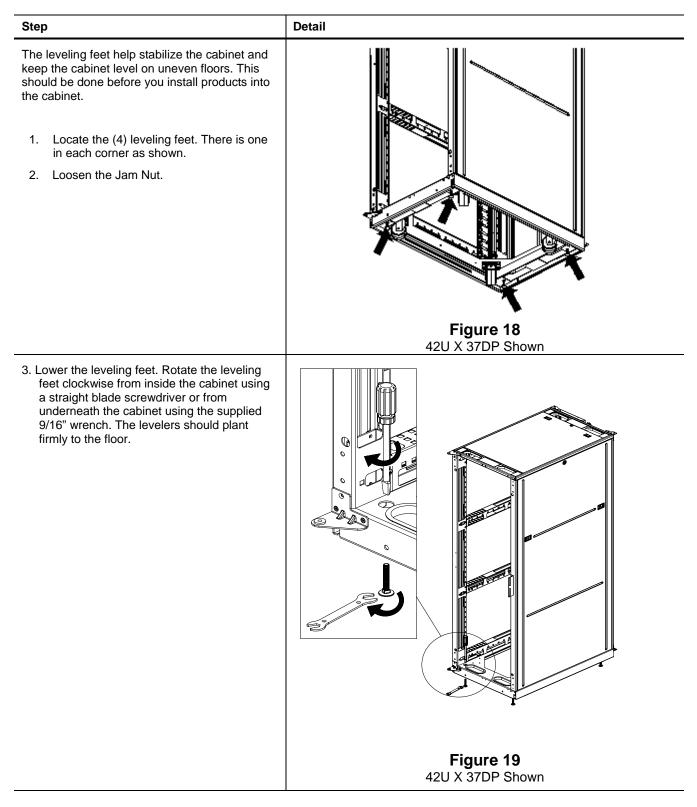
SharkRack Enclosure Installation Guide

Step	Detail
Reverse the door hinge brackets:	
 Remove the door. (See "Installing and Removing Doors" on page 15) 	
5. Use a Phillips head screwdriver to remove the hinge pin brackets and latch bracket(s) from the cabinet frame.	
	Figure 16 42U X 37DP Shown

How to Reverse the Door Swing (cont.)



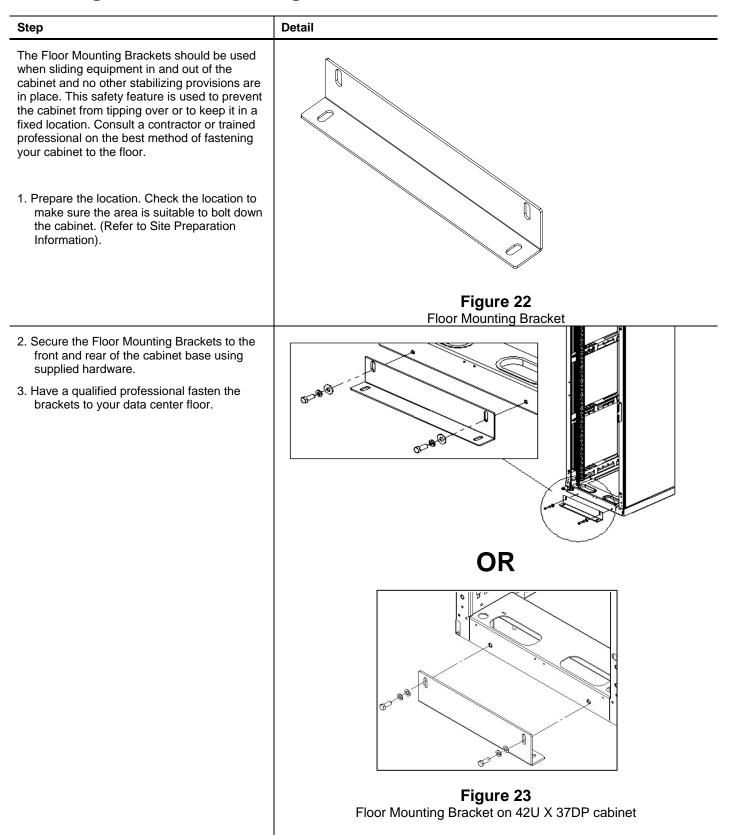
Adjusting the Leveling Feet



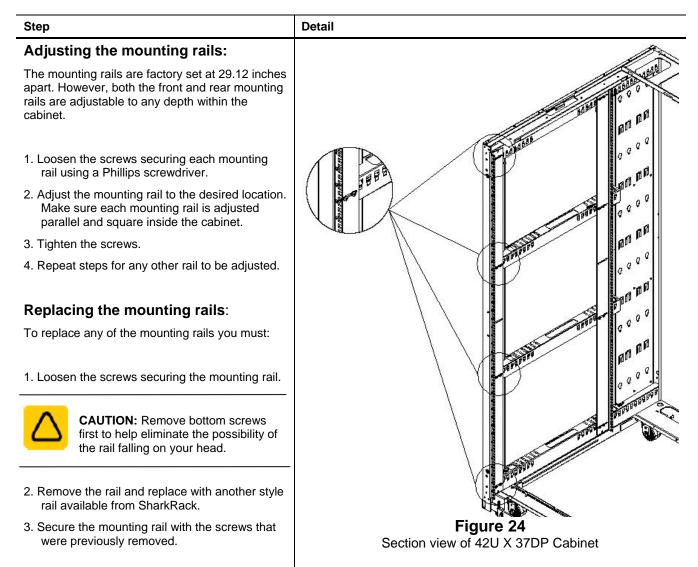
Installing the Retractable Tip Guard

Step	Detail
 The Retractable Tip Guard should be used when the cabinet is not secured to the floor and equipment is being slid in and out of the cabinet. This feature is used to prevent the cabinet from tipping over. 1. Insert the legs of the tip guard into the base of the cabinet. Detent the spring latches towards the rear of each leg. 	
	Figure 20 42U X 37DP Shown
2. Check the operation of the Retractable Tip Guard. It should freely cycle through its full range of motion.	
Note: Some adjustment of the center section may be required for smooth operation. To adjust loosen the (4) screws at the front of the Tip Guard. Reposition the pieces as required. Tighten the screws.	
Note: When in use, remember to fully lower both leveling feet on the retractable stabilizer kit until they are firmly planted on the floor.	
	Figure 21 42U X 37DP Shown

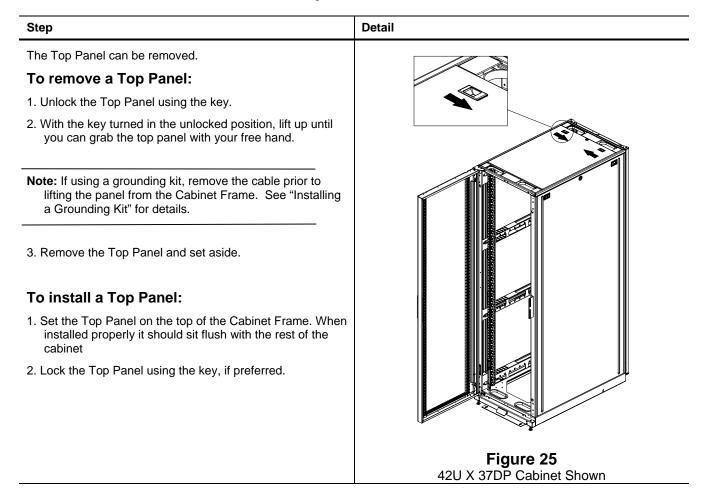
Installing the Floor Mounting Brackets



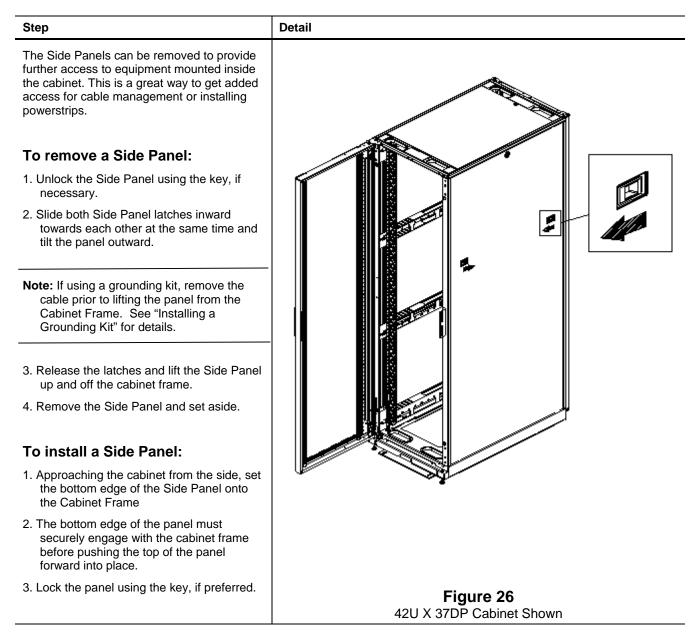
Adjusting or Replacing the Mounting Rails



How to Remove or Install a Top Panel



How to Remove or Install Side Panels



Installing a Grounding Kit

Step

Grounding points are provided on the various cabinet components so that each component can be electrically bonded to the frame.

Detail A:

Shows how to route the grounding cables through the frame of the cabinet. Connection (1) attaches to either of the door assemblies. Connection (2) attaches to the side panel

Detail B:

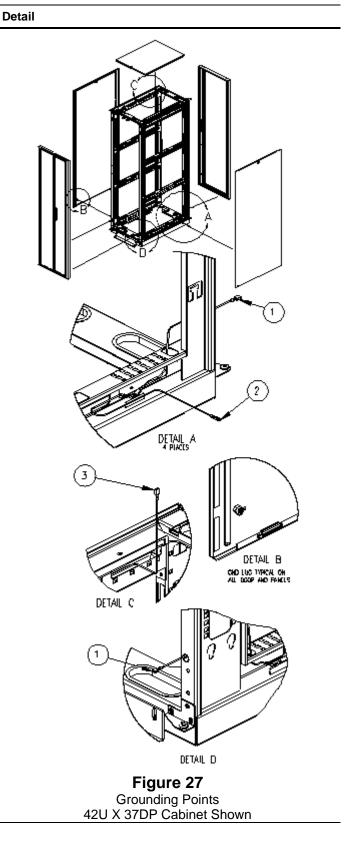
Shows where connection (2) attaches to the corner of the Side Panel

Detail C:

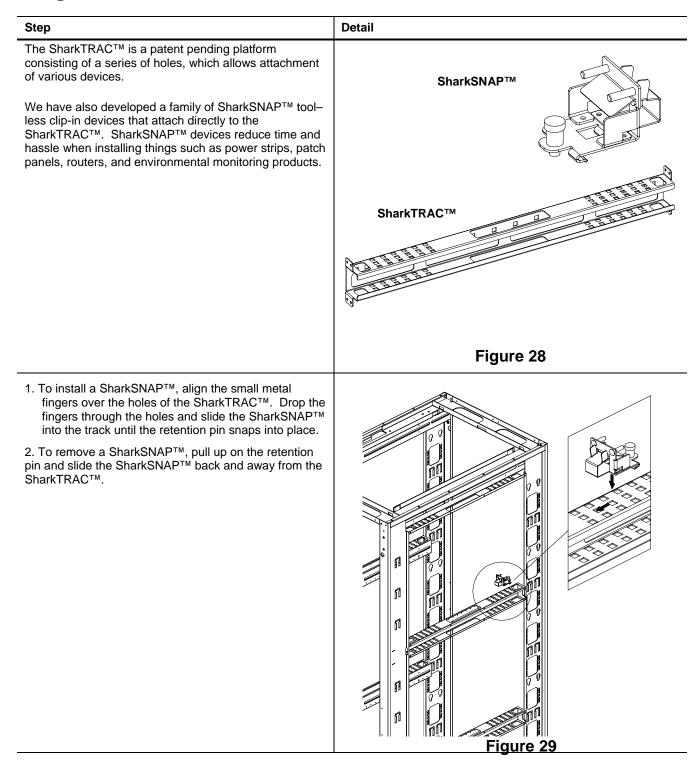
Shows how to route the grounding cable to the top panel.

Detail D:

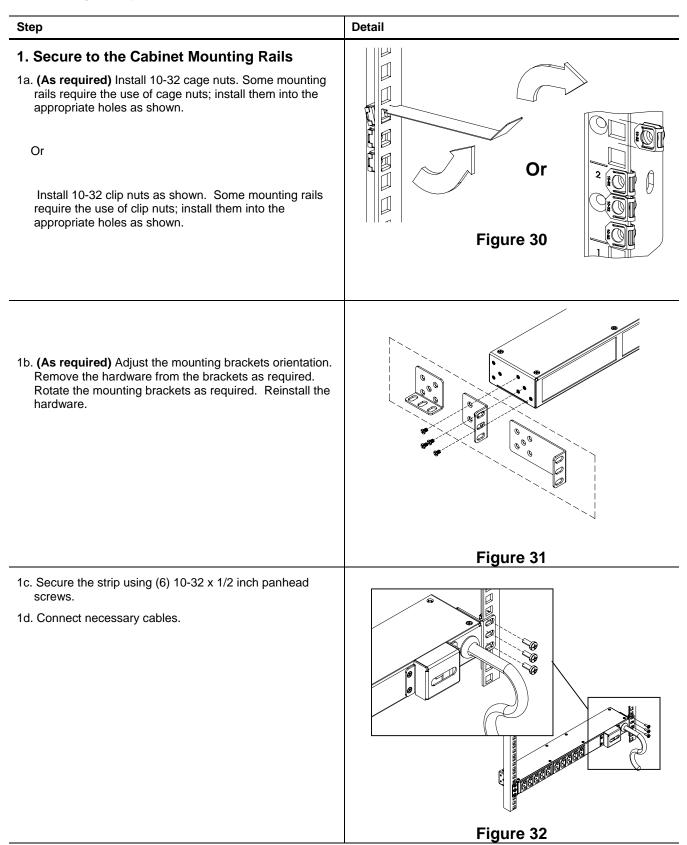
Shows the door grounding cable being routed through the face of the corner post (reverse side of Detail A).



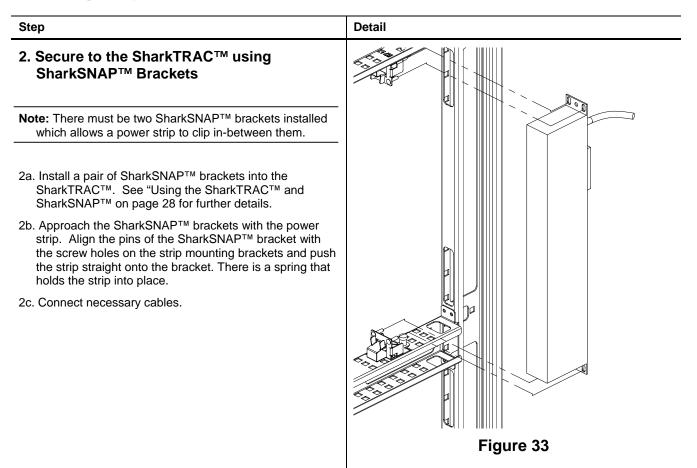
Using the SharkTRAC[™] and SharkSNAP[™]



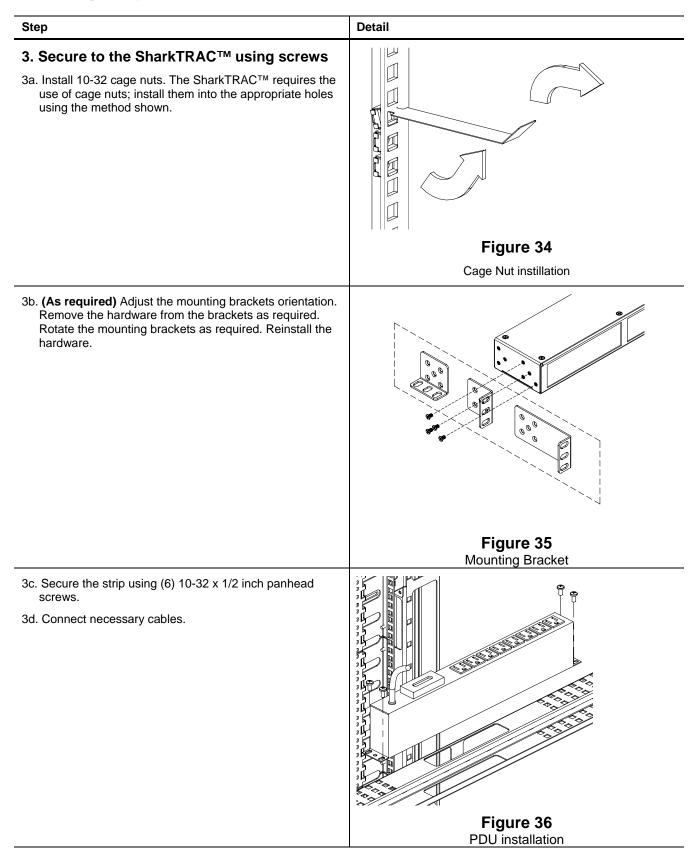
Installing a Typical 19 inch EIA Power Strip



Installing a Typical 19 inch EIA Power Strip (cont.)



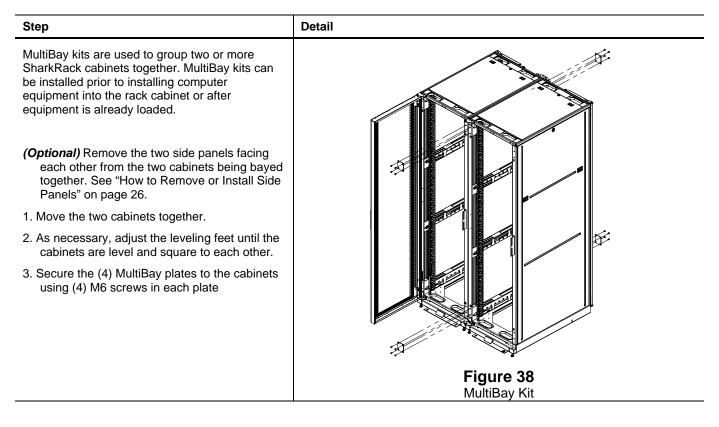
Installing a Typical 19 inch EIA Power Strip (cont.)



Cable Management

Step	Detail
The SharkRack cabinet has been designed with integrated cable management. There are numerous provisions for running cables in the corner posts of the frame as well as out the top, bottom, in both the front and back of the cabinet. There are also many places that cables can be tied down to the frame by using nylon ties or hook and loop strips or ties.	Figure 37 Cable Management

Installing a MultiBay Kit



Chapter 4 Install Computer Equipment

To install computer equipment into the cabinet:

- Plan component locations in the cabinet.
- Install computer equipment.
- Route and secure all loose cables accordingly.

Note: Refer to important safety note for installation on page 4 prior to installing equipment.

Cabinet settings for various manufacturers' devices

Note: Always review equipment manufacturer's manual for specific mounting specifications.

Compaq™

- Most Compaq rack mountable products require 3/8" square-holed "L"-style mounting rails.
- Distance between the front and rear mounting rails needs to be 29.12 inches. Many rack mount kits from Compaq use fixed depth side rails and require the cabinet mounting rails to be exactly 29.12 inches apart.
- Typically products use 6mm cage nuts and screws.

Dell™

- Most Dell rack mountable products require 3/8" square-holed "L"-style mounting rails.
- Typically products use 10-32 cage nuts and screws.
- If a front door is required, use a fully vented front door.

НР™

- Most HP rack mountable products use a 3/8" square-holed "L"-style mounting rails.
- Typically products use 10-32 cage nuts and screws, but some use M5 fasteners.
- If a front door is required, use a fully vented front door.
- If a front door is required, you may need to set all mounting rails back.

Cabinet settings for various manufacturers' devices (cont.)

IBM™

- Most IBM rack mountable products use a 3/8" square-holed "L"-style mounting rails.
- Typically products use 10-32 cage nuts and screws.
- If a front door is required, use a fully vented front door.
- If a front door is required, you may need to set all mounting rails back.

Sun™

- Sun has not published a corporate wide set of racking requirements for 3rd party cabinets.
- Check with a SharkRack Representative or www.sharkrack.com for recommended racking hardware.
- Most equipment works with the use of SharkRack's 3/8" square-holed L-style mounting rails.
- Many of Sun rack mount kits use 10-32 cage nuts and screws, but some of their newer equipment uses M6 hardware.

Chapter 5 Final Assembly

Check for Functionality

- Have a qualified electrician verify the power sources for your specified power requirements.
- Check that there is no obstruction to any device that needs to be accessed for maintenance.
- Check that there is easy access to the power strips
- Check that all fasteners are tight. Typical torque values are:
 - o 10-32 30 inch-lbs.
 - o M5 24 inch-lbs.
 - M6 40 inch-lbs.
- Re-install the doors (See "Installing and Removing Doors" for details).
- Power up devices.

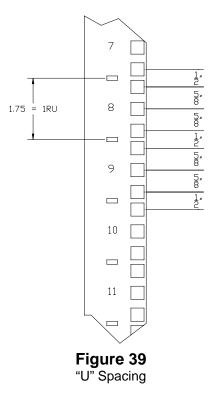
Appendix A: Glossary

EIA:

For more than 72 years the **Electronic Industries Alliance** has been the national trade organization representing U.S. electronics manufacturers. Committed to the competitiveness of the American producer, EIA represents the entire spectrum of companies involved in the design and manufacture of electronic components, parts, systems and equipment for communications, industrial, government and consumer uses.

U (or RU):

A Rack Unit, or sometimes referred to as "U", is the measure of space in a rack cabinet enclosure equal to 1.75 inches as defined by the EIA-310 standard. Each Rack Unit in an EIA rack cabinet enclosure will have three holes. The first hole is spaced at .25 inches from the bottom of the U to the center, followed by 2 holes spaced at .625 center to center and then .25 inches to the top of the RU.



Zero U:

Zero U is any rack unit that is not a part of the main stacked rack unit in a cabinet.

Appendix A: Glossary (cont.)

Cage Nut:

A fastener typically used in square-hole universal type racks, similar to a Clip Nut. When selecting the correct cage nut you must specify the thread size as well as the thickness of the mounting rail they will be attaching to.



Figure 40 Cage Nut

Clip Nut:

A fastener typically used on round-hole universal type racks, similar to a Cage Nut. They come in different shapes and sizes. You must specify the thread type as well as the thickness of the mounting rail they will be attaching to.

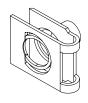


Figure 41 Clip Nut

SharkSNAP™:

SharkSNAP[™] is a family of tool–less clip-in devices that attach to the SharkTRAC[™]. SharkSNAP[™] devices reduce time and hassle when installing things such as power strips, patch panels, routers, and environmental monitoring products into a cabinet.

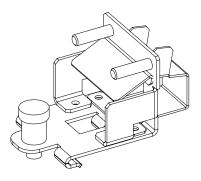


Figure 42 SharkSNAP™

Appendix A: Glossary (cont.)

SharkTRAC[™]:

The SharkTRAC[™] is a platform consisting of a series of holes, which allows attachment of various devices such as the family of SharkSNAP[™] tool-less clip-in devices.

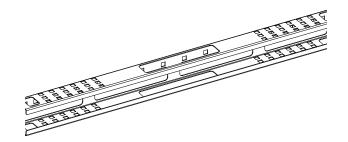
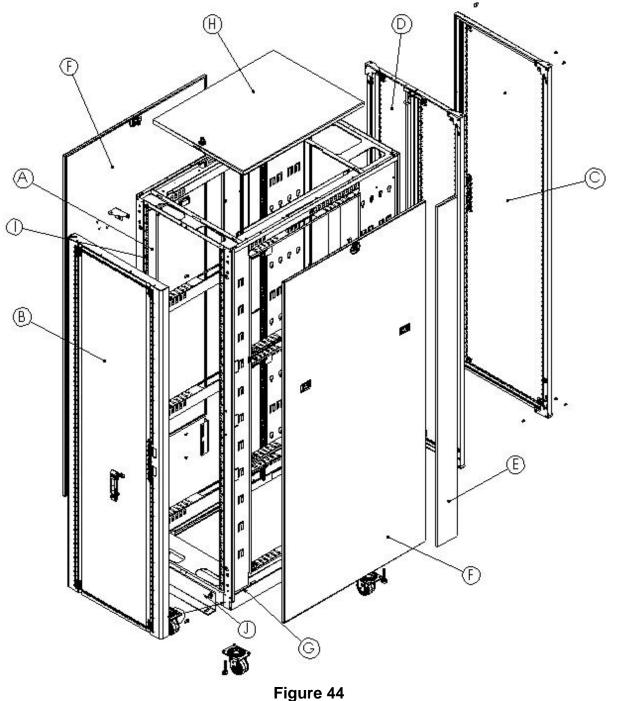


Figure 43 SharkTRAC[™]

Appendix B: Basic Cabinet Components

Note: Before you begin configuring your SharkRack cabinet, it is best to verify that you have received all necessary items to begin your installation. Also verify that your equipment has arrived free of damage. Rack configurations may vary.



42U X 42DP Cabinet – Exploded View

	Parts List	
REF	Description	Quantity/REF
A	Cabinet Frame	1
В	Front Door Kit	
	Grommet Bumper	2
	Bracket, Latch – Front Door	1
	Front Hinge, Bracket Top-Left/Bottom-Right	1
	Front Hinge, Bracket Top-Right/Bottom-Left	1
	Front Door Perforated	1
	Snap-In swing Handle	1
	#10-32X.375 Flat Head Screw	8
С	Full Rear Door Kit	
	Bracket, Latch, Full Rear Door	1
	Snap-In swing Handle	1
	Grommet Bumper	2
	Rear Hinge, Bracket Top-Left/Bottom-Right	1
	Rear Hinge, Bracket Top-Right/Bottom-Left	1
	#10-32X.375 Flat Head Screw	8
	Full Rear Door Perforated	1
D	Split Rear Door Kit	
	Rod Latch	1
	#10-32 Flat Head Screw	16
	#10 Hex Nut w/Tooth Washer	2
	Rear Hinge, Bracket Top-Left/Bottom-Right	2
	Rear Hinge, Bracket Top-Right/Bottom-Left	2
	Grommet Bumper	7
	Right Hand Split Door	1
	Left Hand Split Door	1
E	5" Filler Panel	2
F	Side Panel	2
G	Casters	4
I	Leveling Feet	4
J	Floor Mounting Bracket	2
Н	Non-Perforated Top Panel	1
1	Mounting Rails (Set of 4)	1

Table 1 Parts List

Appendix C: Cabinet Specifications

Note: The information listed on the chart in Table 2 is taken from SharkRack's latest generation of racks. Previous generations vary from that listed bellow.

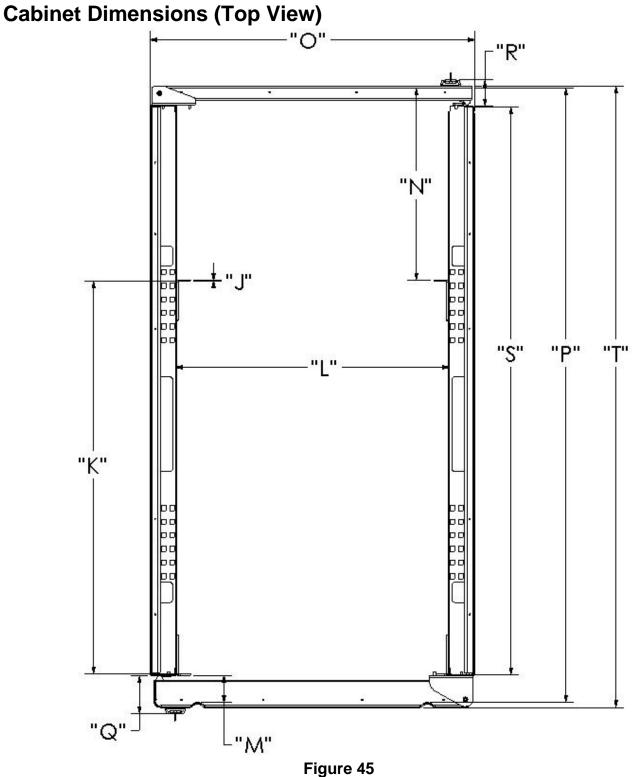
Note: The Reference column of Table 2 references the Figures and the following pages. All Measurements are listed in Inches unless otherwise specified.

			Cabinet Depth	
	Reference	37"	42"	45"
Distance Between Frame Members (in)	G	19.985	19.985	19.985
Mounting Rail Mounting Holes Center-to-Center (in)	Н	18.42	18.42	18.42
Mounting Flange Inside Width (in)		17.925	17.925	17.925
Mounting Rail Thickness (in)	J	.1046 (12 Gage)	.1046 (12 Gage)	.1046 (12 Gage)
Front Mounting Flange to Rear Mounting Flange (in)	K	28.91	28.91	28.91
Interior Clearance (in)	L	19.78	19.78	19.78
Front Mounting Rail to Inside of Front Door (in)	M	1.98	1.98	1.98
Rear Mounting Rail to Inside of Rear Door (in)	N	9.13	14.13	17.13
Cabinet Width (in)	0	23.89	23.89	23.89
Inside Front Door to Inside Rear Door (in)	P	40.23	45.23	48.23
Distance from frame to Fornt Door Handle (in)	Q	2.82	2.82	2.82
Distance from frame ro Rear Door Handle (in)	R	1.93	1.93	1.93
Cabinet Depth (Frame Only) (in)	S	37	42	45
Cabinet Depth (With Doors) (in)	Т	41	46	49
Front Door Perforation (Open Area) %		64%	64%	64%
Rear Door Perforation (Open Area) %		64%	64%	64%
Service Clearance Front (in)		25	25	25
Service Clearance Rear (Split Rear) (in)		24 (12)	24 (12)	24 (12)

 Table 2

 Cabinet Specifications

 All dimensions are nominal unless indicated otherwise



Cabinet Dimensions

Mounting Rail Dimensions (Front View)

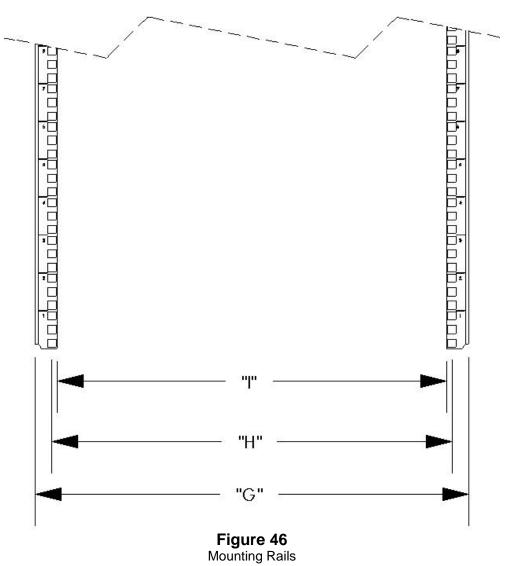


Figure 1	
Figure 3	7
Figure 4	8
Figure 5	
Figure 6	
Figure 7	11
Figure 8	11
Figure 9	
Figure 10	
Figure 11	
Figure 12	
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