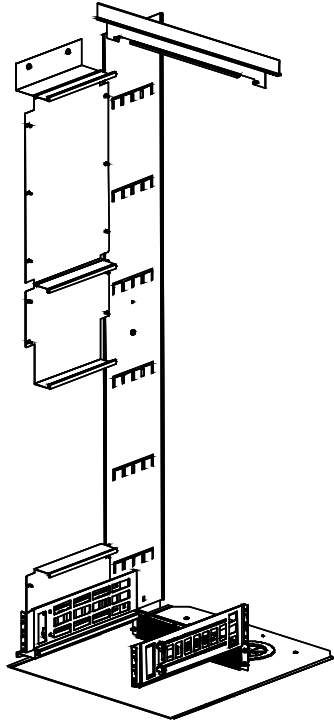
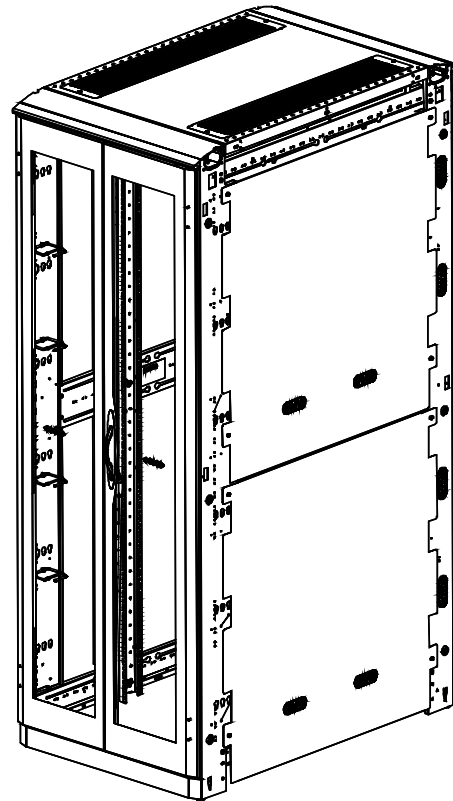


Installation Guide 7-Dec-12

Airflow Conversion Kits for Cisco Switches in Paramount PMT Series Enclosures



Cisco Switch
Conversion Kit



Paramount
Enclosure

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About this Guide

This document describes how to install airflow conversion kits for Cisco switches housed within an Eaton Paramount enclosure.

The step by step installation procedure found within this document describes how to install an Eaton 6513 airflow conversion kit within an Eaton Paramount enclosure. Although a specific kit is cited in the procedure, the procedure is generic in that the same steps can be followed to install other Cisco switch airflow conversion kits in an Eaton Paramount enclosure.

NOTE: Several conversion kits are supported and the components found within each vary. As a result, some of the installation steps are not applicable to all conversion kits. The steps that do not apply to a specific kit type are clearly marked within the procedure and should be omitted-skipped by the installer when instructed to do so.

Intended Audience

This document is intended for personnel responsible for the installation of equipment and conversion kits within racks and rack enclosures in an IT data center environment.

Technical Support

If you encounter any problems with this installation, send an email and detailed description of the problem as well as contact information to Technical Support at dc.support@eaton.com.

Sales Representative and Contact Information

Contact your Eaton Sales representative using one of the methods below:

Phone	Call us toll free at 800.225.7348 (US Only) or 508.852.4300
Mail	Eaton 160 Gold Star Boulevard Worcester, MA 01606
Email	InfoESWorcesterMA@Eaton.com
Web	Visit us at www.eaton.com/wrightline and click on "Contact Us." Simply complete and submit the form as directed on our website.

Before You Begin

Before installing a Cisco switch airflow conversion kit within an Eaton Paramount enclosure, it is recommended that you familiarize yourself with the components found within your conversion kit. For a schematic diagram and list of the components within each conversion kit, [see page 14, Schematic Diagrams: Cisco Conversion Kits for Paramount Enclosures](#).

Tools Required

The following tools are required to install a Cisco switch airflow conversion kit in an Eaton Paramount enclosure:

- Ratchet, short extension, and 3/8" socket;
- #2 Phillips head screwdriver.

Related Documentation

The following document has additional information that may be helpful when installing Cisco airflow conversion kits within an Eaton Paramount enclosure:

- Paramount Enclosure Installation Guide

Introduction to Eaton Airflow Conversion Kits for Cisco Switches

This section provides an overview of the various airflow conversion kits Eaton manufactures to support the operation of Cisco switches within a Paramount enclosure.

In regards to providing nominal operational temperature control, some Cisco switches support side-to-side airflow designs, while others support front-to-back airflow designs.

Cisco switches that fall into the side-to-side airflow category include:

- Cisco Catalyst 6509-E
- Cisco Catalyst 6513
- Cisco MDS 9513

Cisco switches that support front-to-back airflow design include:

- Cisco 7000 series switches; in particular, the Cisco 7010 switch

Eaton's airflow management system (AMS) operates most efficiently when enclosures, such as the Paramount enclosure, channel airflow movement from the front of the cabinet to the back, and into the AMS airflow stream. As such, when equipment supporting side-to-side airflow is installed within a Paramount enclosure, airflow conversion kits are required to help redirect and funnel side-to-side airflow into front-to-back airflow.

The table below identifies the airflow conversion kits Eaton manufactures for the Paramount enclosure and the associated Cisco switch the kit supports:

Eaton Paramount Conversion Kit	Cisco Switch	Switch Airflow Design
6509CVKnnUPM	Cisco Catalyst 6509-E	Side-to-Side
6513CVKnnUPM	Cisco Catalyst 6513	Side-to-Side
9513CVKnnUPM	Cisco MDS 9513	Side-to-Side
7010CVKnnUPM	Cisco Nexus 7010	Front-to-Back

***NOTE:** nn value; all conversion kits listed above are supported in 42U, 44U, 48U, and 51U height enclosures.

****NOTE:** The switch conversion kits listed above are only supported in Paramount PMT series enclosures, not JW series enclosures.

Airflow Conversion Kit Component Descriptions

This section provides basic descriptions of the various components found within an Eaton airflow conversion kit.

Air Seal Panels/Plates

Top, side, and bottom air seal panels and plates block airflow in unwanted directions, while channeling airflow to follow a front to back stream.

Bottom air seal plates also support grommets for sub-enclosure cable entry and exit.

***NOTE:** Conversion kits for switches supporting front-to-back airflow designs do not include side air seal panels; for example, the Cisco Nexus 7010.

Lacing Bar

Vertical lacing bars provide support for managing large bundles of data and power cables.

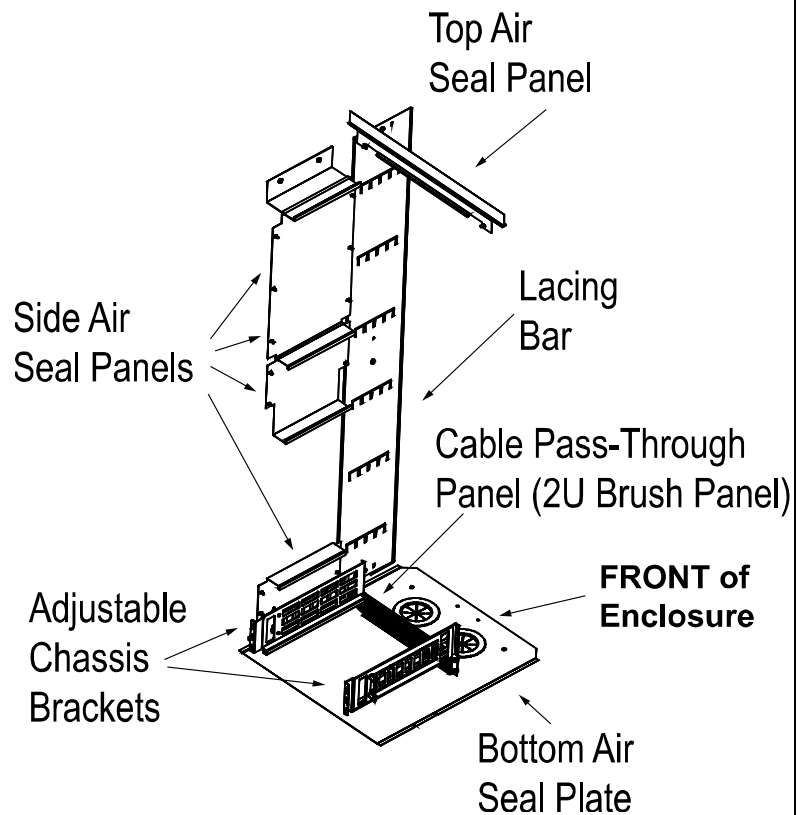
Cable Pass-Through Panel (2U Brush Panel)

Panel constructed of brush material allowing cables to be passed through while maintaining airflow control.

Adjustable Chassis Brackets

Adjustable brackets slide horizontally from front to back and are easily adjusted to match the depth of the switch being installed.

Bracket adjustments are accomplished by loosening T-knob fasteners on the outside of each bracket, sliding the inside portion of the bracket to the desired depth, then re-tightening each knob.



Procedure: Installing Cisco Airflow Conversion Kits in a Paramount Enclosure (Recommended)

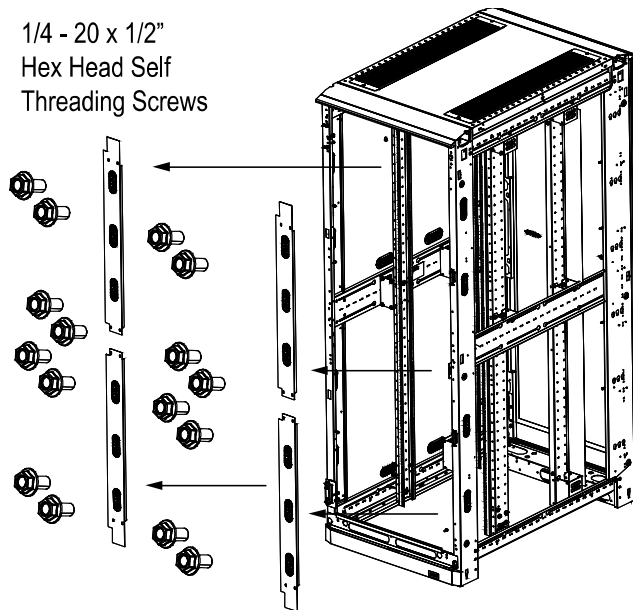
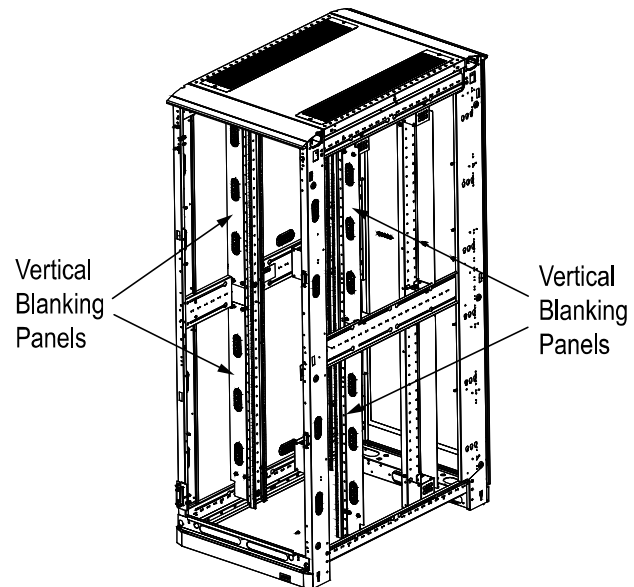
The following series of steps are recommended when installing a Cisco airflow conversion kit within an Eaton Paramount PMT series enclosure.

Step 1: Remove Vertical Blanking Panels

Important! DO NOT perform this step if installing a conversion kit for a Nexus 7010 (7000 series switches) or any Cisco switch that operates using front-to-back airflow cooling. Skip this step and go directly to the step 2.

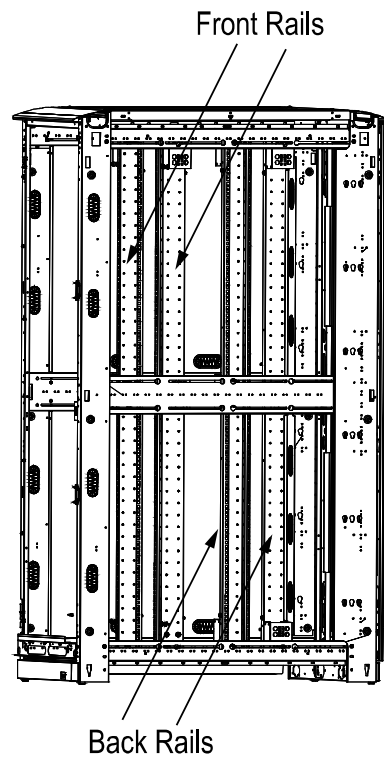
IF installing a conversion kit for a Cisco Catalyst 6509-E, 6513, MDS 9513, or any Cisco switch that operates using side-to-side airflow cooling, do the following:

- On the inside of the enclosure, locate the four vertical blanking panels attached to the front vertical rails. Refer to top diagram.
- As shown in the lower diagram, using a ratchet and 3/8" socket, remove all four vertical blanking panels attached to the left and right front vertical rails.
- Retain all four vertical blanking panels and the sixteen 1/4 - 20 x 1/2" screws for relocation in a later step.

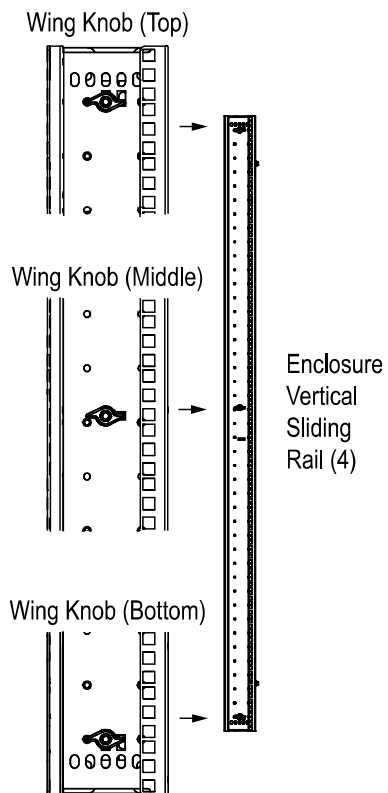


Step 2: Move Sliding Rails to Rear of Enclosure

- a) Inside the enclosure, locate the two front and two back vertical sliding rails.



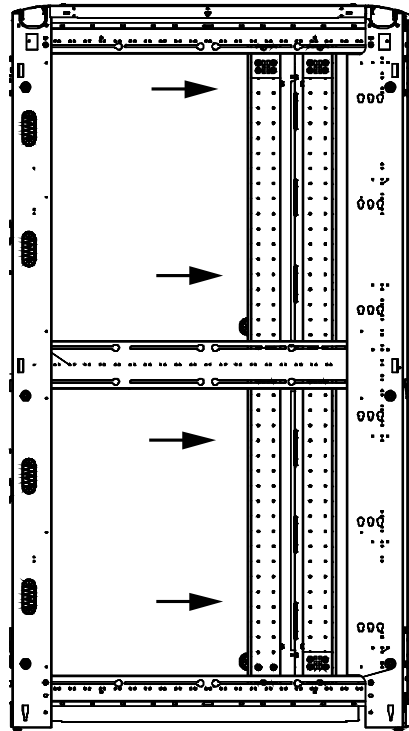
- b) Loosen the three wing knobs on each vertical sliding rail (top, middle, and bottom).



c) Slide all four rails towards the back of the enclosure.

Note: Position front rails approximately 24" from front of enclosure.

All Four Vertical Rails Moved to Back of Enclosure

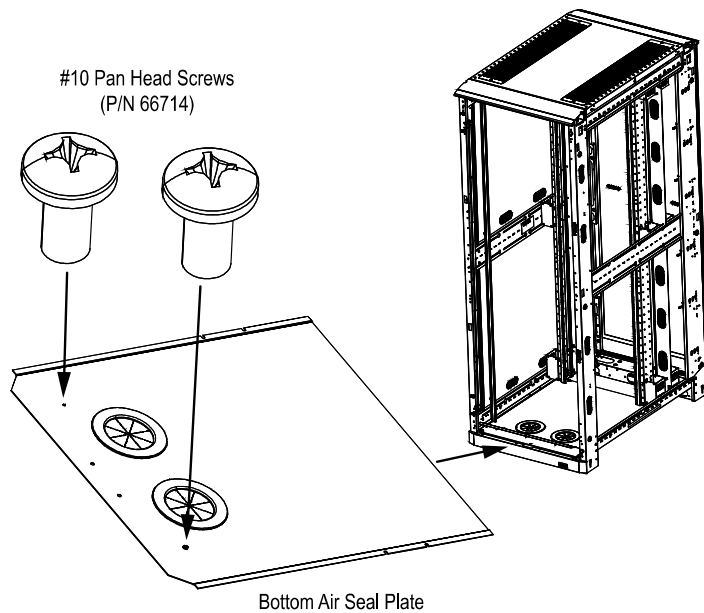


Step 3: Install Bottom Air Seal Plate

Insert bottom air seal plate with angular corners facing the front of the enclosure as shown.

Make sure the offset flanges on the sides face up and are sitting on the side bottom rail mounts.

Align the two holes in the bottom air seal with two cross-member holes. Using a #2 Phillips screwdriver, attach using two #10 pan head screws as shown.



Step 4: Relocate Front and Back Vertical Rails

Relocate the front and back rails according to the switch type/size to be installed.

Minimum Front Rail Depth

6509, 6513, 9513 switch	13.10"
7010 (7000 series)	8.0"

NOTE: Minimum settings are suggested depths, and if used, will provide more room in the rear of the enclosure for additional PDUs and components.

Front rail depth is measured from the front of the enclosure to the front of the rail.

Back Rail Depth*

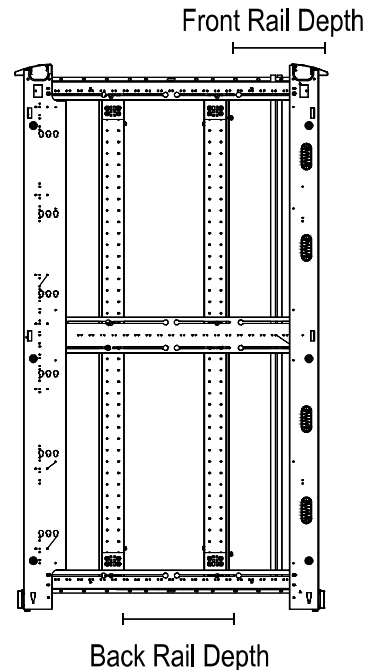
6509, 6513	20.00"
9513	26.56"
7010 (7000 series)	32.00"

*Back rail depth is measured from the front of front rails to the front of back rails.

Front Rails MIN Depth from Front of Enclosure

6509, 6513, 9513 switches = 13.10"

7010 (7000 series) switches = 8.0"



Back Rail Settings Depend on Switch Type
Measured from Front of Front Rail to Front of Back Rail

6509, 6513 switches = 20.00"

9513 switch = 26.56"

7010 (7000 series) = 32.00"

Step 5: Reinstall Vertical Blanking Panels

NOTE: Perform this step if installing Cisco side-to-side airflow kits. If installing front-to-back airflow kits, go to the next step.

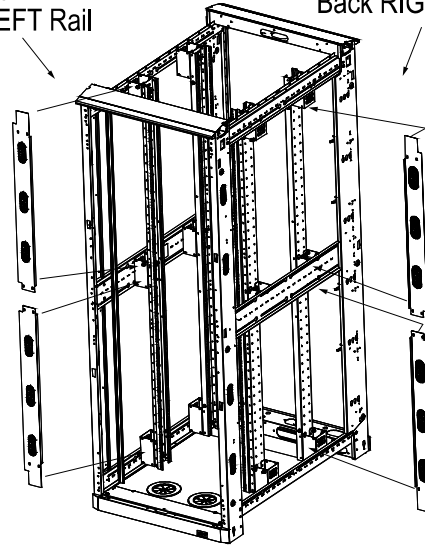
If vertical blanking panels were removed in step 1, they must be re-installed at this time.

As shown, one upper and one lower vertical blanking panel must be attached to the front left vertical rail as well as the back right vertical rail.

Using a ratchet, short extension, and 3/8" socket, attach each blanking panel using four 1/4 - 20 x 1/2" hex head self-threading screws.

Attach One Upper and Lower Vertical Blanking Panel to Front LEFT Rail

Attach One Upper and Lower Vertical Blanking Panel to Back RIGHT Rail



Use Four 1/4 - 20 x 1/2" Hex Head Self-Threading Screws to Attach Each Vertical Blanking Panel

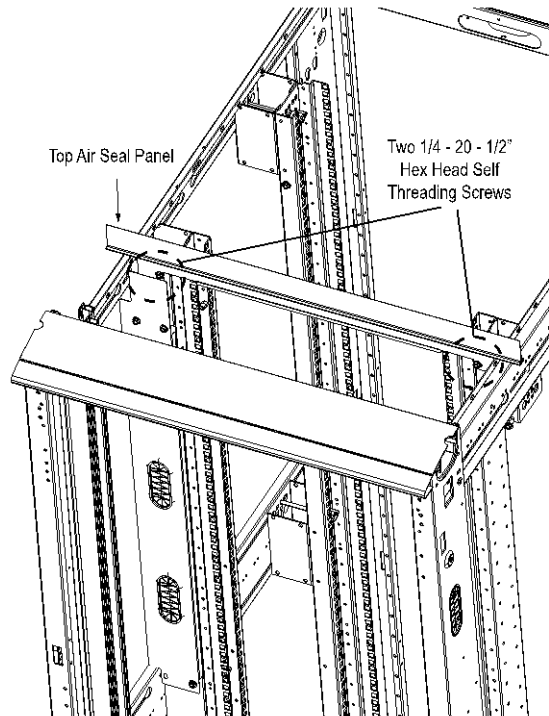
Step 6: Install Top Air Seal Panel

As shown to the right, attach the top air seal panel to the front vertical rails, using two 1/4 - 20 x 1/2" hex head self-threading screws.

To tighten, use a ratchet, short extension, and 3/8" socket.

Top Air Seal Panel

Two 1/4 - 20 - 1/2" Hex Head Self-Threading Screws



Step 7: Install Side Air Seal Panels

All side-to-side conversion kits have side air panels, whereas, front-to-back conversion kits do not

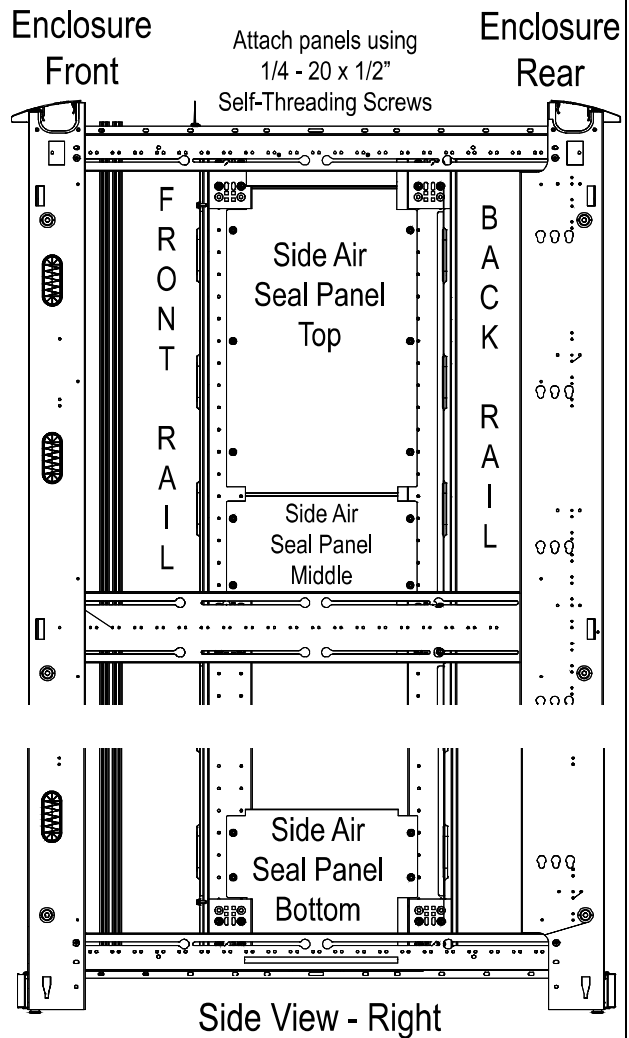
For side-to-side conversion kits, the size, shape, and quantity of side air seal panels vary between conversion kits. Some kits have three panels, others have four or more.

Regardless of differences in quantity and shape, all side air seal panels are attached to the front and back vertical rails, (on the right side of the enclosure ONLY) during installation.

All panels are attached to the front and back vertical rails using 1/4 - 20 x 1/2" hex head self-threading screws.

The diagram to the right shows the location where side air seal panels are installed for the 44U / 6513 conversion kit. As shown, there are three panels in the kit; a top panel, middle panel, and bottom panel. The top and middle panels abut one another, with the bottom panel located at the very bottom of the enclosure.

For detailed drawings showing the quantity, shapes, and installation locations of side air seal panels for other conversion kits, [see Schematic Diagrams: Cisco Conversion Kits for Paramount Enclosure, on page 14.](#)



(This view shows panels for 44U / 6513 Kit)

*See Appendix A for views of other kits.

Step 8: Install Lacing Bar

Side-to-side conversion kits (6509, 6513, and 9513) have a single lacing bar that is installed at the front right of the enclosure.

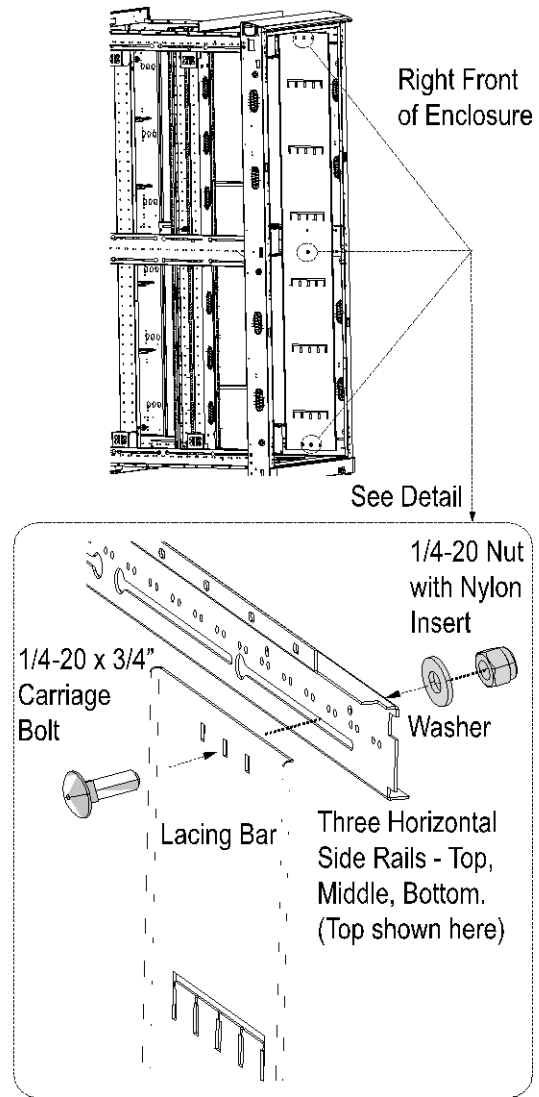
Back-to-front conversion kits (7000 series) come with two lacing bars. One lacing bar is installed at the front right of the enclosure, and the other at the front left.

Depending on the kit type, different hardware and methods are used when attaching lacing bars to the inside of the enclosure. The following topics and diagrams outline the subtle differences for each.

Lacing Bar Install for Side-to-Side Kits

For side-to-side kits (6509, 6513, and 9513) the lacing bar is attached to the front right of the enclosure using the slits found on each horizontal side rail; top, middle, and bottom.

As shown to the right, one 1/4 - 20 x 3/4" carriage bolt is inserted from the inside of the enclosure, through each center hole located at the top, middle, and bottom of the lacing bar. The bolt is then pushed through the front slits on each of the three horizontal side rails. With the three carriage bolts inserted (top, middle, bottom) the lacing bar is secured to the horizontal rails using a washer followed by a 1/4 - 20 nut, with nylon insert.



Lacing Bar Install for Front-to-Back Kits

For front-to-back kits (7000 series) the two lacing bars within the kit are attached to the left and right front of the enclosure using predrilled holes located at the front of each horizontal side rail; top, middle, and bottom.

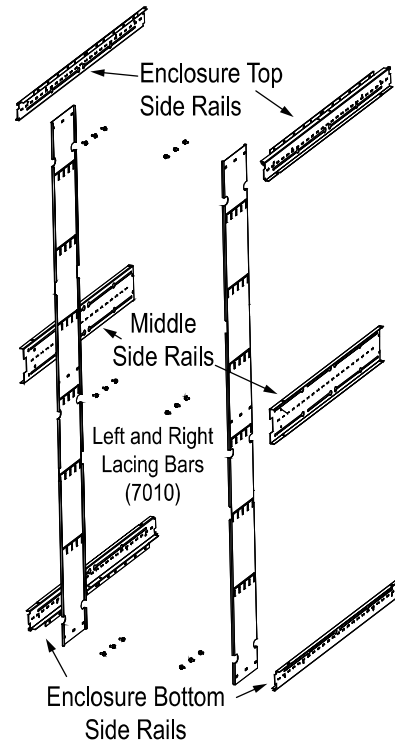
As shown in the diagram to the right, nine 1/4 - 20 x 1/2" hex head self-threading screws are used for securing each lacing bar to the front of the top, middle, and bottom horizontal side rails.

Referring to the detailed diagram (bottom right) each set of three self-threading screws are inserted from the inside of the enclosure, through the holes in the lacing bar (top, middle, and bottom), and into predrilled holes located at the front of each horizontal rail.

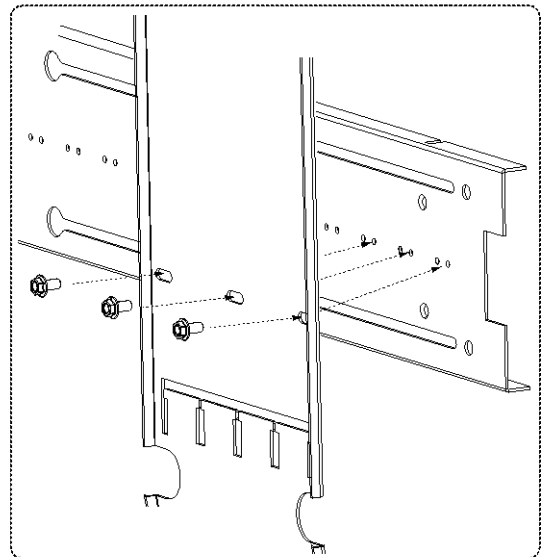
The detailed view shows the lacing bar on the right side of the enclosure as it is attached to the front of the middle horizontal side rail. Aside from the location (top, middle, bottom) the same view and installation instructions applies to all other fastening points on each of the two lacing bars.

To tighten, use a ratchet, short extension, and 3/8" socket.

To identify and view lacing panel component(s) found within each conversion kit, see [Schematic Diagrams: Cisco Conversion Kits for Paramount Enclosure](#), on page 14.



All screws are 1/4 - 20 x 1/2" self-threading screws. Each fastening point requires 3 screws, for a total of 18 screws, 9 per side. SEE DETAIL DRAWING BELOW.



Step 9: Install Adjustable Chassis Brackets

Adjustable chassis brackets can be installed at any height within an enclosure. Where adjustable brackets are placed depends upon each user's enclosure and equipment requirements, switch type and dimensions.

In the example to the right, the adjustable chassis brackets (left and right) are installed at the bottom of the enclosure.

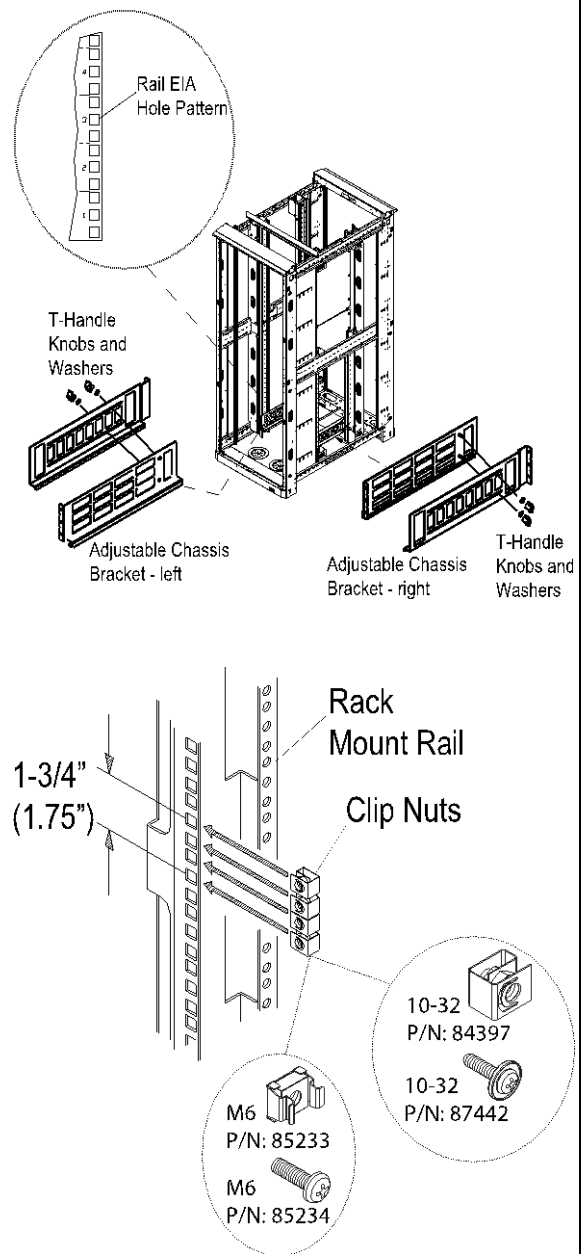
As shown, each adjustable chassis bracket consists of two interconnecting sliding brackets, fastened together by two T-handle knobs and two washers.

Each adjustable chassis bracket (left and right) attaches to front and back vertical rails using clip nuts and screws as shown in the lower diagram to the right.

For enclosure rails with a 3/8" square hole pattern, use the #10-32 clip nuts and screws. M6 clip nuts and screws are provided for metric rails.

NOTE: Clip nuts are not required on rails with pre-threaded EIA holes.

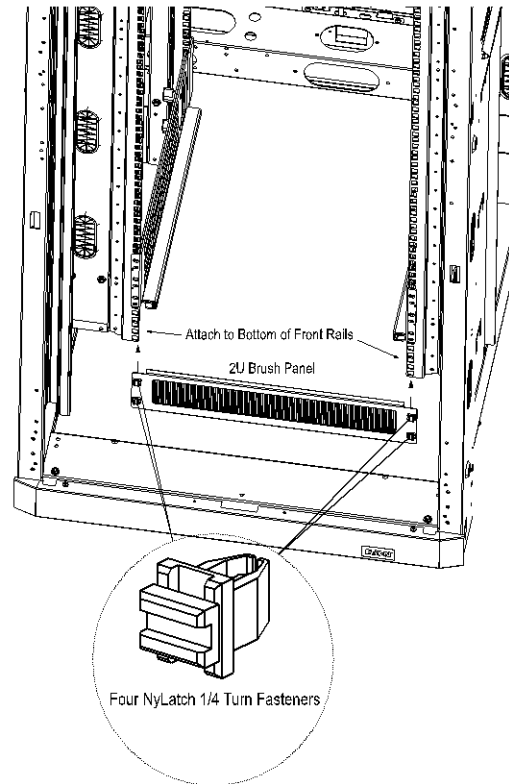
Once adjustable chassis brackets are secured to the rails loosen the T-handle knobs for each bracket and adjust the length to match the depth of the switch to be installed. Tighten the knobs once the proper depth is reached.



Step 10: Install Cable Pass-Through Panel (2U Brush Panel)

As shown to the right, the 2U cable pass through panel attaches to the bottom of the front left and right vertical rails using four pre-installed NyLatch fasteners.

To attach the panel, insert the tip of each NyLatch fastener into the square holes on the rails, then turn each latch a 1/4 turn in either direction to secure the panel to the rails.

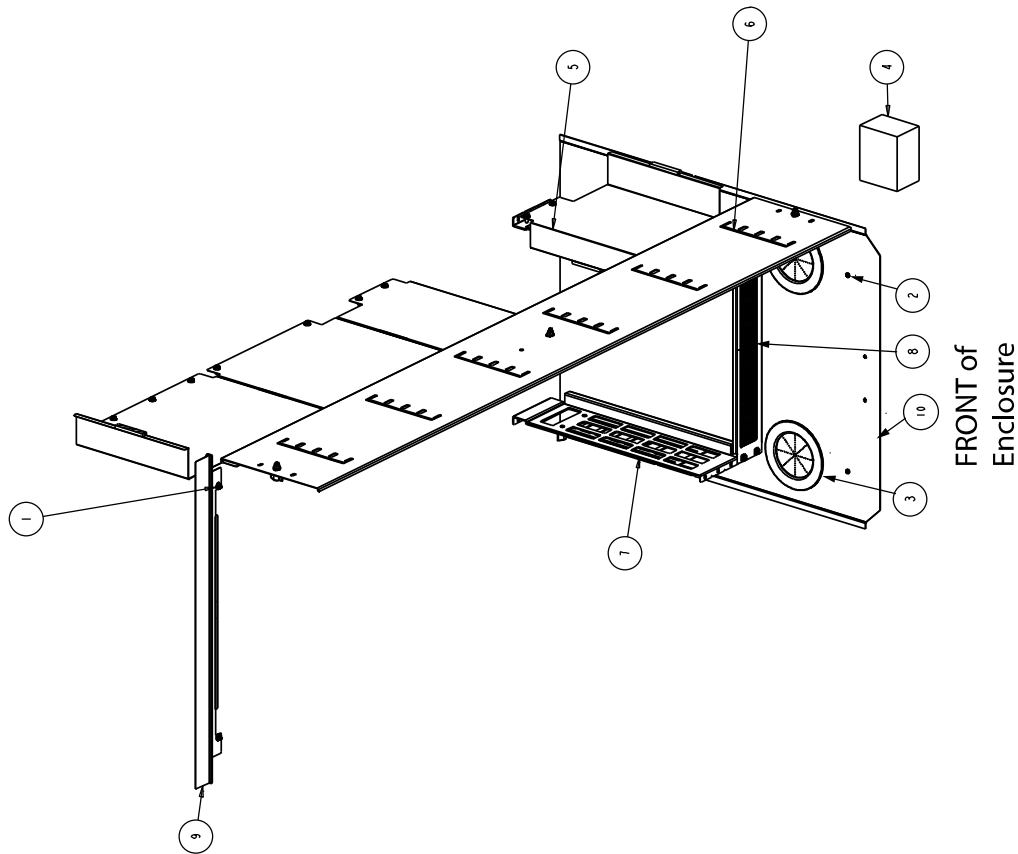


Schematic Diagrams: Cisco Conversion Kits for Paramount Enclosures

This section contains schematic diagrams for all Cisco Switch Conversion Kits available for Eaton's Paramount PMT series enclosures.

- [6509CVK42UPM, 6509CVK44UPM, 6509CVK48UPM, 6509CVK51UPM](#)
- [6513CVK42UPM, 6513CVK44UPM, 6513CVK48UPM, 6513CVK51UPM](#)
- [9513CVK42UPM, 9513CVK44UPM, 9513CVK48UPM, 9513CVK51UPM](#)
- [7010CVK42UPM, 7010CVK44UPM, 7010CVK48UPM, 7010CVK48UPM](#)

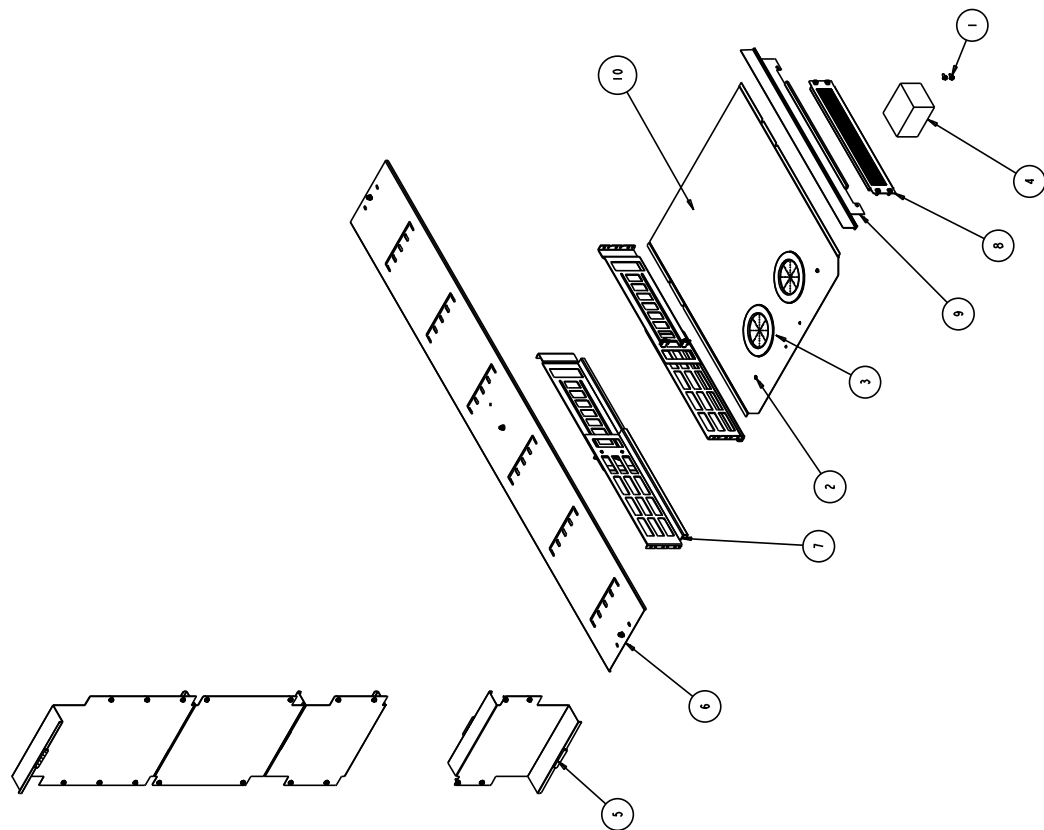
6509CVK42UPM



BAG ALL HARDWARE.
SHIPPING WEIGHT: 57 POUNDS

REV	REV. DATE	REV'D BY	PRODUCTION RELEASE	EPR123691	ECN OR EPR NUMBER
-	08/22/12	MQuegli	08/22/12	08/22/12	08/22/12
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DRAWING AND PART INFORMATION					
CAGE NUMBER: 81824					
DESIGN MGMT SITE: PROJGRP 50 - Paramount					
MATERIAL: Morchester					
MATERIAL FINISH: -					
SPEC #:					
ITEM TYPE DOCUMENT #					
10	SM	24579X	PANEL, BOTTOM SEAL, 30"W X 40"D	1	
9	SM	23949X	PANEL, AIR SEAL, 30" CAB	1	
8	MA	CMBPBRSH2U	ASST, CABLE PASS THRU PANEL	1	
7	MA	ADJCHAS2032	ADJ CHASSIS BRKTS, 20" TO 32"	1	
6	MA	26951X	LACING BAR - 42U X 10.5W	1	
5	MA	26947X	SIDE AIR SEAL - 42U (6509)	1	
4	KIT	V3CAGEE	KIT RACK MTG RAILS - 10-32 CAGE NUT	1	
3	CP	JWRDGRDM	4" DIA GLAND GROMMET	2	
2	CP	66714	SCREW, PAN HEAD SWAGEFORM	2	
1	CP	54348	SCREW, 1/4-20X1 1/2 HEX WSHR HD	2	
CISCO 6509 CONVERSION KIT FOR PM42042H					
SHEET: 1 OF 2					
REV DATE: 08/22/12					
D 6509CW42042 REV -					

6509CVK44UPM



BAG ALL HARDWARE, INCLUDING HARDWARE
REFERENCED IN ASSEMBLIES SPECIFIED ON THIS DWG.
SHIPPING WEIGHT: 59 LBS

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-	-	-	ECN OR EPR NUMBER

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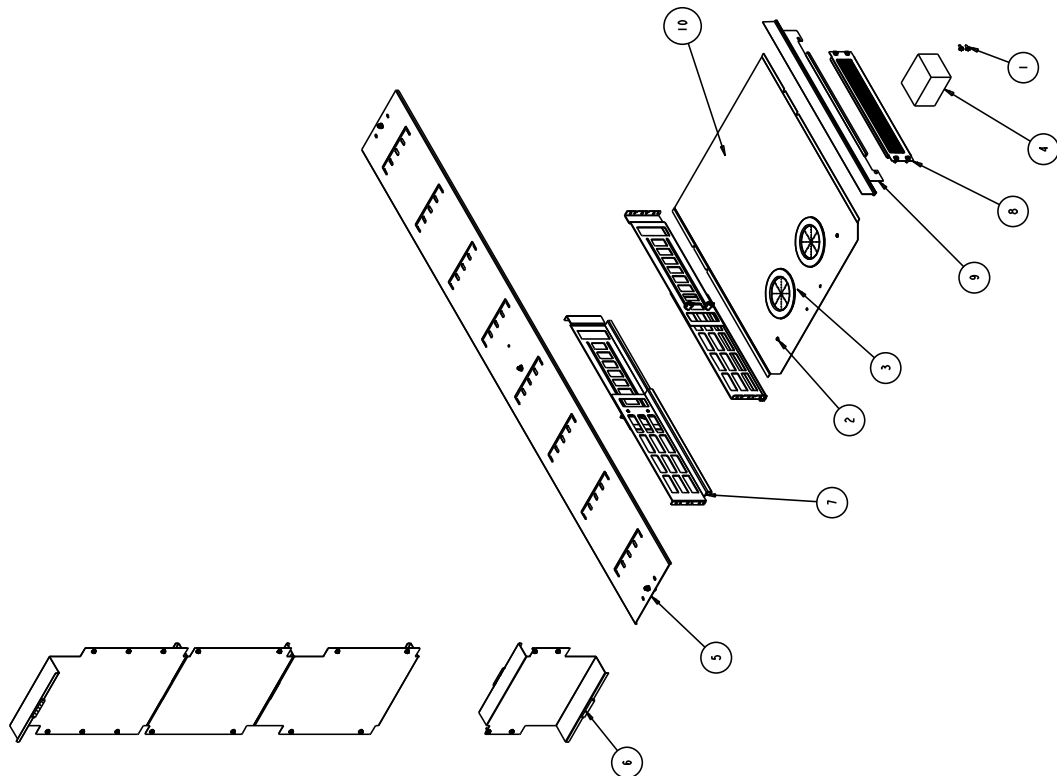



FIG. ALL HARDWARE, INCLUDING HARDWARE
REFERENCED IN ASSEMBLIES SPECIFIED ON THIS DWG.
SHIPPING WEIGHT: 65 LBS

10	SM	25127X	-	PANEL, BOTTOM SEAL, STD, 30"W	1
9	SM	23949X	-	PANEL, AIR SEAL, 30" CAB	1
8	MA	CMBPBRSH2U	-	ASST. CABLE PASS THRU PANEL	1
7	MA	ADJCHAS2032	-	ADJ CHASSIS BRKTS, 20" TO 32"	1
6	MA	28075X	-	SIDE AIR SEAL, 48U (6509)	1
5	MA	28074X	-	LACING BAR - 48U X 10.5W	1
4	KIT	V3CAGEE	-	KIT RACK MTG BAILEY - 10-32 CAGE NUT	1
3	CP	JWRDGRDM	A	4" DIA GLAND GROMMET	2
2	CP	66714	H	SCREW, PAN HEAD SWAGEFORM	2
1	CP	54348	-	SCREW, 1/4-20X1 1/2, HEX WSHR HD	2
ITEM TYPE				DOCUMENT #	QTY



48U 6509 CONVERSION KIT
FOR PM483024U OR PM48348H

REV	10/16/12	DLucio	REV'D BY	ECN OR EPR NUMBER	DESCRIPTION
-	-	-	-	EPR123711	PRODUCTION RELEASE
-	-	-	-	-	CURRENT REVISION

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
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-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
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-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
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-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
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-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

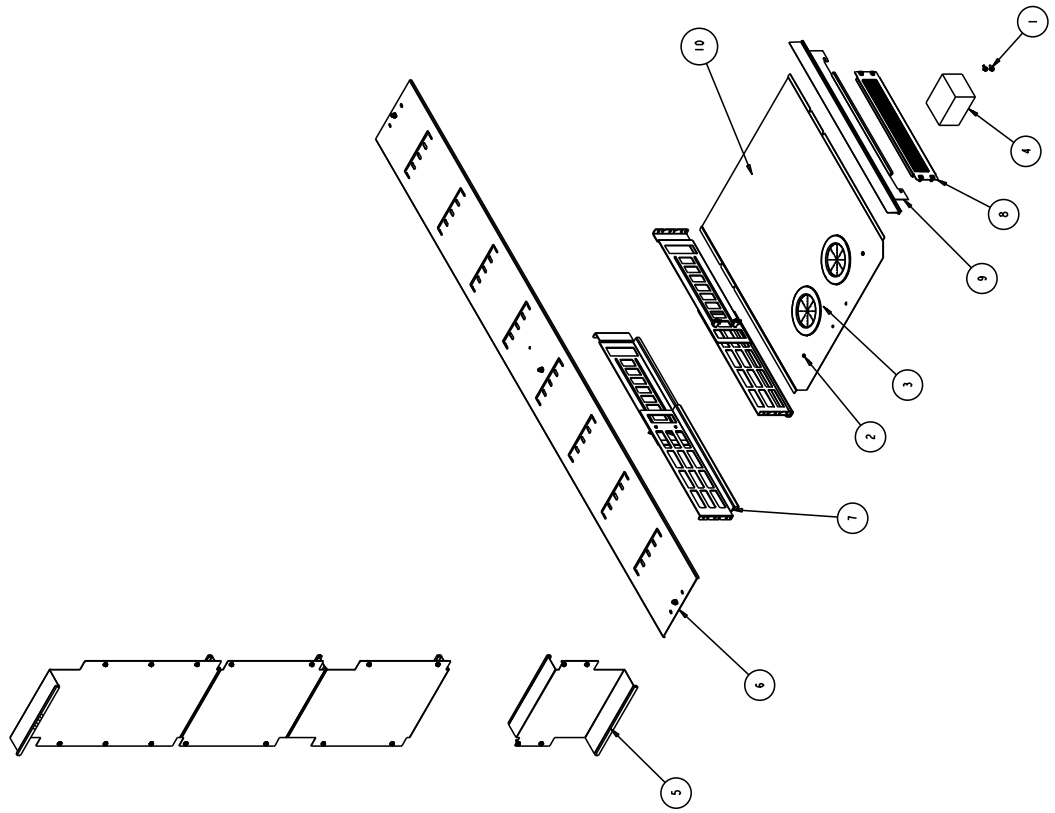
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REV	REV	REV	REV	REV	REV
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-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV	REV	REV	REV	REV
-	-	-	-	-	-
-	-	-	-	-	-

10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12
REV	REV				

6509CVK51UPM



BAG ALL HARDWARE, INCLUDING HARDWARE
REFERENCED IN ASSEMBLIES SPECIFIED ON THIS DWG.
SHIPPING WEIGHT: 65 LBS

ITEM	TYPE	DOCUMENT	REV	DESCRIPTION	QTY
10	SM	25127X	-	PANEL, BOTTOM SEAL, STD, 30"W	1
9	SM	23949X	-	PANEL, AIR SEAL, 30" CAB	1
8	MA	CMBRBSH2U	-	ASST. CABLE PASS THRU PANEL	1
7	MA	ADJCHAS2032	-	ADJ. CHASSIS BRKTS, 20" TO 32"	1
6	MA	24585X	-	LACING BAR - 5IU X 10.5W	1
5	MA	17501054	-	SIDE AIR SEAL, 5IU	1
4	KIT	VXCAKEE	-	KIT RACK MIG RAILS - 10-32 CAGE NUT	1
3	CP	JMRNGROM	A	4" DIA. GLAND GROMMET	2
2	CP	63714	H	SCREW, PAN HEAD, SWAGEFORM	2
1	CP	54348	-	SCREW, 1/4-20X1/2 HEX WSHR HD	2

CAGE CODE: 81824	DATE: 10/16/12
DESIGN: BY: DUCIO	DATE: 10/16/12
DRWN: BY: DUCIO	DATE: 10/16/12
PROD. GRP: 16 - Air Flow Management	
COLOR: -	
MATERIAL: 6061-T6 ALUMINUM	
FINISH: ANODIZED	
PROCESS: 100% INSPECTION	
REVISION: 1	
REVISION: 2	
REVISION: 3	
REVISION: 4	
REVISION: 5	
REVISION: 6	
REVISION: 7	
REVISION: 8	
REVISION: 9	
REVISION: 10	

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6509CVK51UPM	6509CVK51UPM
1 OF 1	REV DATE: 10/16/12
D	REV

REV	REV. DATE	REV'D BY	DESCRIPTION
-	10/16/12	DUCIO	PRODUCTION RELEASE
1			ECN OR EPR NUMBER

This exploded view diagram illustrates the assembly of the HP Z8 G3 Workstation. The components are numbered as follows:

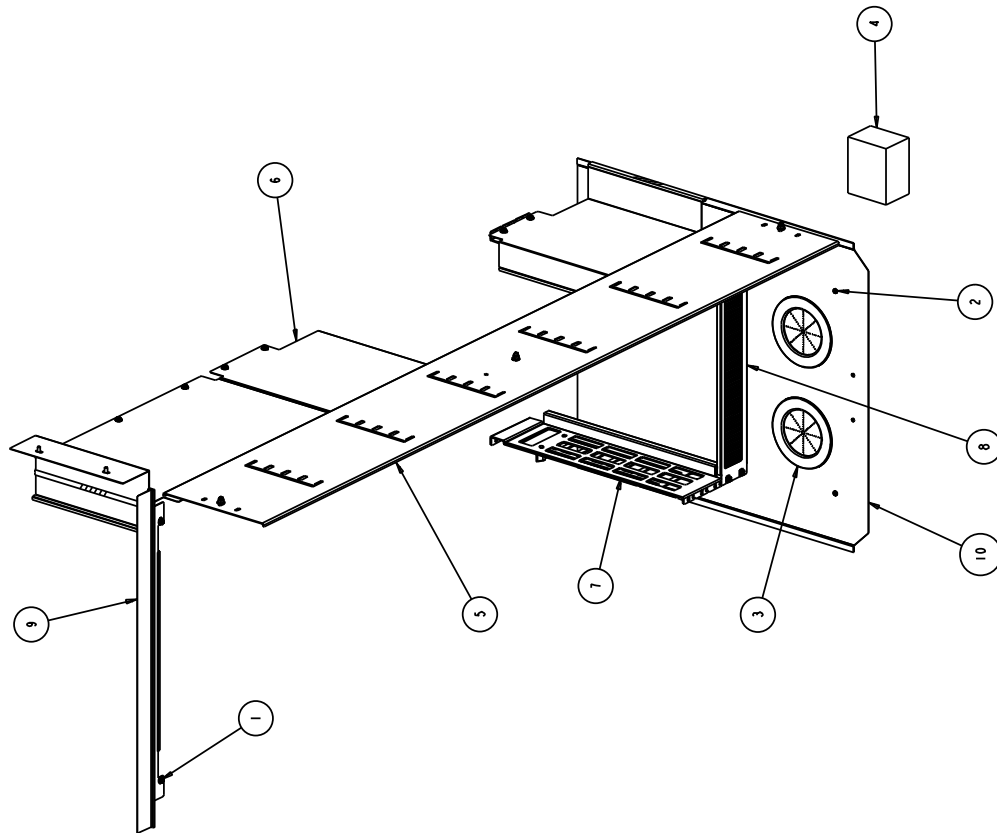
- 1:** The main horizontal chassis or base plate.
- 2:** A vertical panel or door that fits onto the right side of the chassis.
- 3:** Two circular cooling fans mounted on the vertical panel.
- 4:** A small rectangular component, likely a power supply or a drive, shown separately above the main assembly.
- 5:** A long, narrow horizontal component, possibly a drive bay or a specialized interface card, positioned below the main chassis.
- 6:** A vertical component, likely a memory module or a specialized card, positioned to the left of the main chassis.
- 7:** A keyboard tray or a specialized input device, shown below the main chassis.
- 8:** A vertical component, likely a memory module or a specialized card, positioned to the right of the main chassis.
- 9:** A vertical component, likely a memory module or a specialized card, positioned to the left of the main chassis.
- 10:** A vertical component, likely a memory module or a specialized card, positioned to the right of the main chassis.

SHIPPING WEIGHT: 57 POUNDS

10	SM	25127X	PANEL, BOTTOM SEAL - STD. 30"W	1
9	SM	23949X	PANEL, AIR SEAL 30" CAB	1
8	MA	CMBPBSH2U	ASSY, CABLE PASS THRU PANEL	1
7	MA	ADJCHASSIS032	ADJ CHASSIS BRNITS, 20" to 32"	1
6	MA	28016X	SIDE AIR SEAL KIT. 42U, 6513	1
5	MA	26951X	LACING BAR - 42U X 10.5W	1
4	KIT	V3CAGEE	KIT RACK MTG RAILS - 10-32 CAGE NUT	1
3	CP	JWRDGR0M	4" DIA GLAND GROMMET	2
2	CP	66714	SCREW, PAN HEAD SWAGEFORM	2
1	CP	54348	SCREW, 1/4"-20X1/2 HEX WSHR HD	2
ITEM	TYPE	DOCUMENT #	DESCRIPTION	QTY

[illegible]

6513CVK44UPM

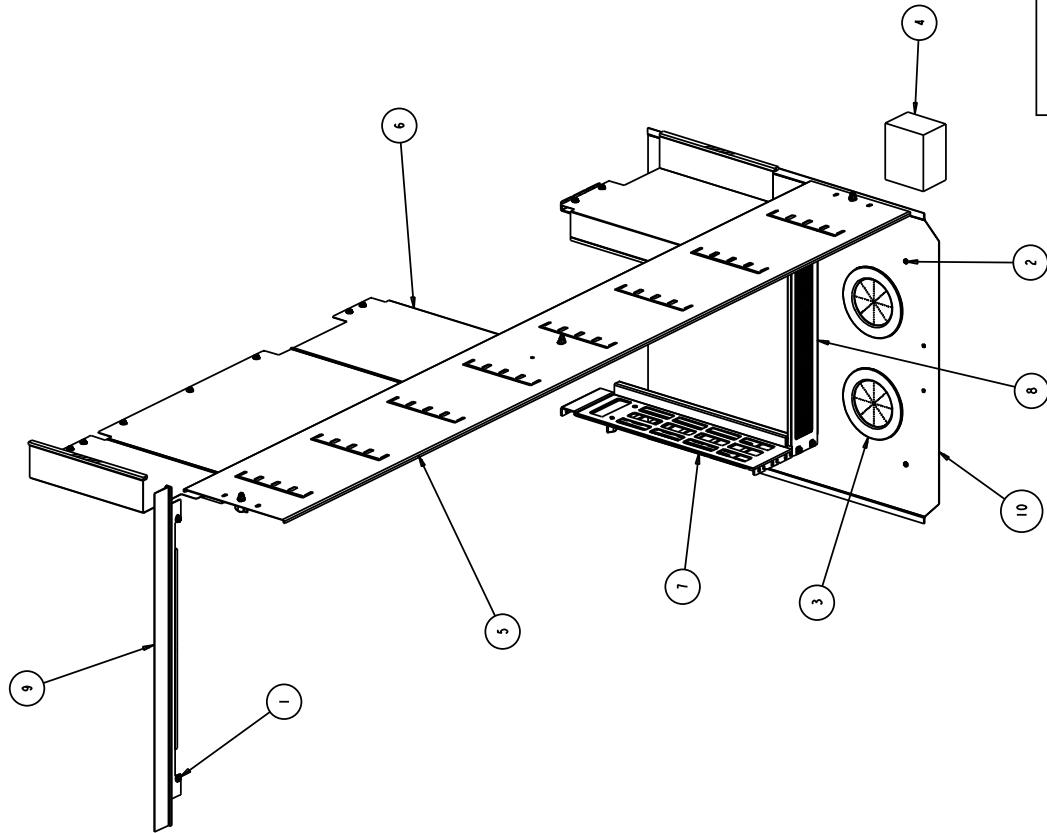


BAG ALL HARDWARE.
SHIPPING WEIGHT: 59 POUNDS

ITEM	TYPE	DOCUMENT #	DESCRIPTION	QTY
10	SW	25127X	PANEL, BOTTOM SEAL, STD, 30"W	1
9	SW	23949X	PANEL, AIR SEAL, 30" CAB	1
8	MA	CMBPBSRZU	ASST. CABLE PASS THRU PANEL	1
7	MA	ADJCHAS2032	ADJ CHASSIS BRKTS, 20" TO 32"	1
6	MA	27052X	SIDE AIR SEAL KIT, 44U, 6513	1
5	MA	24583X	LACING BAR - 44U X 10.5W	1
4	KIT	V3CAGEE	KIT RACK MTG BALLS - 10-32 CAGE NUT	1
3	CP	JWINDGROM	4" DIA GLAND GROMMET	2
2	CP	66714	SCREW, PAN HEAD SWAGEFORM	2
1	CP	54348	SCREW, 1/4-20X1 1/2 HEX WSHR HD	2

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DESIGN MGMT SITE: Worcesster		PROD GRP: 16 - Air Flow Management		COLOR: .		CER. GA: N/A		10/16/12	
MATERIAL: OTHER: NOTED		MATERIAL FINISH: Powder Coat - Variable		SPEC #:		SHEET: 1 OF 2		REV DATE: 10/16/12	
REV		10/16/12		Ductia		EPR123711		ECR OR EPR NUMBER	
REV		DATE		REV'D BY		PRODUCTION RELEASE		CURRENT REVISION DESCRIPTION	
-		-		-		-		-	

6513CVK48UPM



BAG ALL HARDWARE.
SHIPPING WEIGHT: 61 POUNDS

10	SM	25127X	PANEL, BOTTOM SEAL, STD. 30"W	1
9	SM	23949X	PANEL, AIR SEAL, 30" CAB	1
8	MA	CMBPBRSH2U	ASST. CABLE PASS THRU PANEL	1
7	MA	ADJCHAS2032	ADJ CHASSIS BRKTS, 20" TO 32"	1
6	MA	28077X	SIDE AIR SEAL KIT, 48U, 6513	1
5	MA	28074X	LACING BAR - 48U X 10.5W	1
4	KIT	V3CAGEE	KIT RACK MTG RAILS - 10-32 CAGE NUT	1
3	CP	JWRNDGROM	4" DIA GLAND GROMMET	2
2	CP	66714	SCREW, PAN HEAD SWAGEFORM	2
1	CP	54348	SCREW, 1/4-20X17/2 HEX WSHR HD	2
ITEM TYPE DOCUMENT # DESCRIPTION QTY				
CAGE NUMBER: 81824 ORG EPR: EPR123711				
DES. BY: Dulacio 10/16/12				
DRWN. BY: Dulacio 10/16/12				
DESIGN MONT SITE: PROD GRP 16 - Air Flow Management				
MATERIAL: Borcoster				
MATERIAL: N/A				
OTHER: NOTED				
MATERIAL FINISH: Powder Coat - Variable				
SPEC 1:				
THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IS LOANED SUBJECT TO THE CONDITION THAT IT WILL BE KEPT CONFIDENTIAL AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ATEC CORPORATION.				
DATE: 10/16/12				
TIME: 10:00 AM				
BY: Dulacio				
FOR: 6513 CONVERSION KIT				
FOR PMT483042H OR PMT483048H				
SHEET: 1 OF 2				
REV DATE: 10/16/12				
REV: 1				
REV: 2				
REV: 3				
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This diagram illustrates the exploded view of a computer case, showing the following components:

- 1: Bottom panel of the case.
- 2: Top panel of the case.
- 3: Front panel of the case.
- 4: Side panel of the case.
- 5: Main chassis body.
- 6: Internal drive bay cover.
- 7: Keyboard tray.
- 8: Front panel with two circular fans.
- 9: Side panel with a vertical slot.
- 10: Rear panel of the case.

SHIPPING WEIGHT: 63 POUNDS

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FORMS ARE PRINTED AND REPRODUCED BY THE U.S. GOVERNMENT PRINTING OFFICE: 1980 O - 340-100

CAGE NUMBER:
8 1824

DESIGN MOUNT SITE:
PROD GRP 16 - Air Flow Management

Worcslesler:

ORIG EPR: EPR123711

RES. BY: DiaCia

COLOR: -

CES GA: MOTA

MATERIAL: -

OTHER: -

MATERIAL FINISH: Powder Coat - Variable

SPEC #: -

ITEM: 10

TYPE: SM

DOCUMENT #: 25127X

10/16/12

10/16/12

10/16/12

10 **SM** **25127X** **PANEL, BOTTOM SEAL, STD, 30"W**

9 **SM** **23949X** **PANEL, AIR SEAL, 30" CAB**

8 **MA** **CMBPBRSH2U** **ASSY, CABLE PASS THRU PANEL**

7 **MA** **ADJCHAS2032** **ADJ CHASSIS BRKTS, 20" TO 32"**

6 **MA** **27053X** **SIDE AIR SEAL KIT, 51U, 6513**

5 **MA** **24585X** **LACING BAR - 51U X 10.5W**

4 **KIT** **V3CAGEE** **KIT BACK MTG RAILS - 10-32 CAGE NUT**

3 **CP** **JWRNDGROM** **4" DIA GLAND GROMMET**

2 **CP** **66714** **SCREW, PAN HEAD SWAGEFORM**

1 **CP** **54348** **SCREW, 1/4-20X1/2 HEX WSHR HD**

DESCRIPTION

QTY

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This diagram shows the exploded view of a mobile phone assembly. The components are labeled with numbers 1 through 10:

- 1: Main phone body/chassis
- 2: Bottom cover
- 3: Top cover
- 4: Camera lens assembly
- 5: Earpiece/speaker grille
- 6: Microphone/sensor grille
- 7: Keypad
- 8: Display screen
- 9: Side bezel/frame
- 10: Back cover

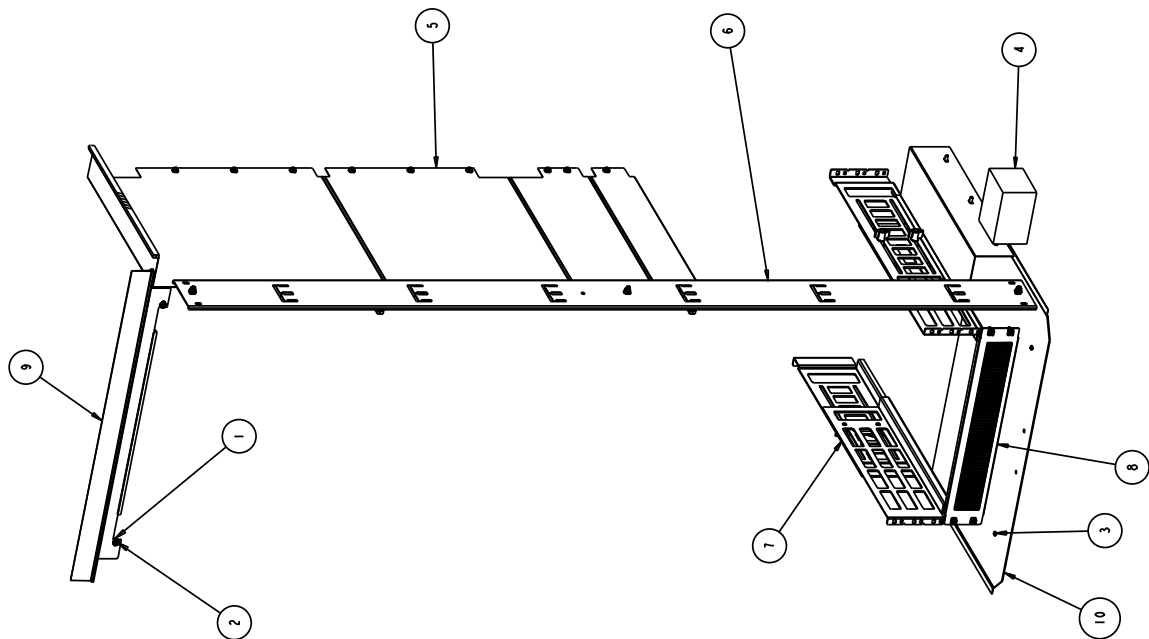
SHIPPING WEIGHT: 46 POUNDS.

10	SM	-	25340X	-	PLATE, BOTTOM SEAL, 30"W X 19.5"D	1
9	SM	23949X	-	PANEL, AIR SEAL, 30" CAB		1
8	MA	CMPRPSR32U	-	ASSY. CARB. PASS THRU PANEL		1
7	MA	ADJ.CHAS2032	-	ADJ. CHASSIS BRKTS, 20" X 32"		1
6	MA	28078X	-	SIDE AIR SEAL KIT, .9513, .420		1
5	MA	28078X	-	LACING BAR - .420 X 4.5"W		1
4	KIT	V3CAGEE	-	KIT RACK MGT RAILS - 10-32 CAGE NUT		1
3	CP	66714	H	SCREW, PAN HEAD SWAGEFORM		2
2	CP	54348	-	SCREW, 1/4-20X1 1/2 HEX WSHR HD		5
1	CP	18209	-	KEP NUT, HEX, 1/4-20 NICKEL		2
ITEM	TYPE	DOCUMENT #	REV	DESCRIPTION		QTY
END NUMBER: 11824						
ORIG FRG: FR123T11		10/15/12		 420 9513 CONVERSION KIT FOR PM12342CH OR PM12348H		
RES. BY: DUCIO		10/15/12				
DRWN. BY: DUCIO		10/15/12				
M MGMT SITE: PROD GRP 16 - Air Flow Management						
CORRECTOR: COLOR: -						
CREG GRP: MTD						
OTHER: N/A						
SHEET: 1 OF 2				REV DATE:		10/15/12
D				9513C/W420PM		REV
SPEC #						
RITIAL FINISH: Powder Coat - Variable						

[illegible]

-	10/15/12	DLucia	PRODUCTION RELEASE	EPR123711
REV	REV. DATE	REV'D BY	CURRENT REVISION DESCRIPTION	ECN OR EPR NUMBER

9513CVK44UPM



BAG ALL HARDWARE.
SHIPPING WEIGHT: 46 POUNDS.

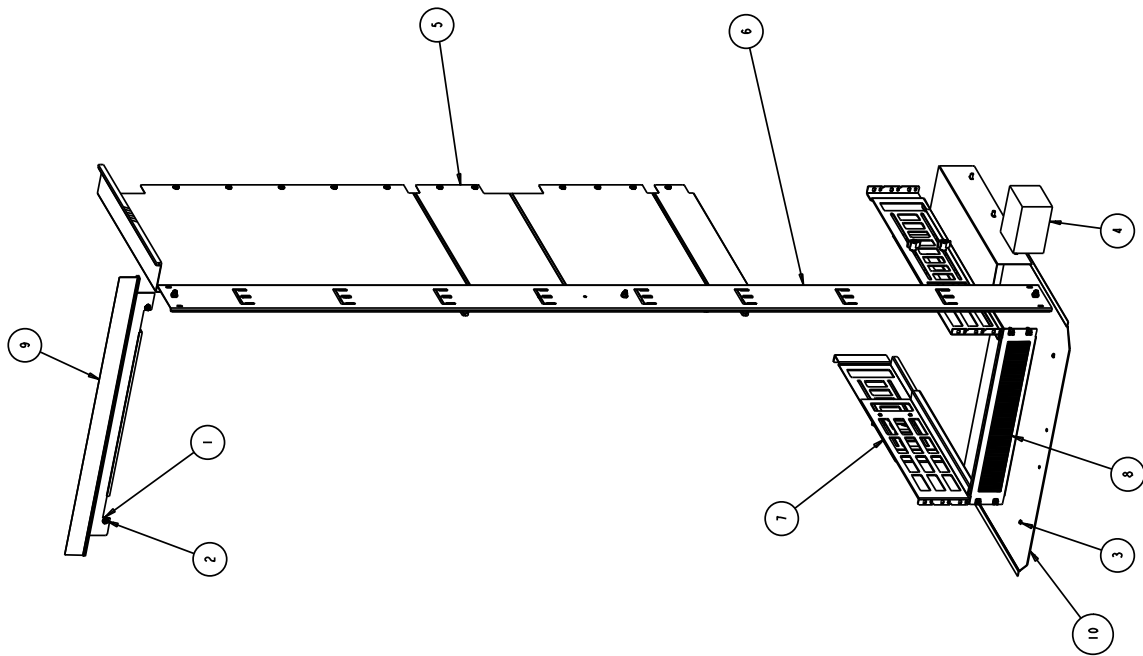
10	SM	25340X	-	PLATE, BOTTOM SEAL, 30"W X 19.5"D	1
9	SM	23949X	-	PANEL, AIR SEAL, 30" CAB	1
8	MA	CHBPBRSH2U	-	ASSY. CABLE PASS THRU PANEL	1
7	MA	ADJCHAS2032	-	ADJ. CHASSIS BRKTS, 20" TO 32"	1
6	MA	25564X	-	LACING BAR - 44U X 4.5"W	1
5	MA	17501569	-	SIDE AIR SEAL KIT, 9513, 44U	1
4	KIT	Y3CAGEE	-	KIT RACK WIG RAILS - 10-32 CAGE NUT	1
3	CP	66714	H	SCREW, PAN HEAD SWAGEFORM	2
2	CP	54348	-	SCREW, 1/4-20X1 1/2 HEX WSHR HD	5
1	CP	18209	-	KEP NUT, HEX, 1/4-20 NICKEL	2

ITEM	TYPE	DOCUMENT #	REV	DESCRIPTION	QTY
1	CP	18209	-	KEP NUT, HEX, 1/4-20 NICKEL	2
2	CP	54348	-	SCREW, 1/4-20X1 1/2 HEX WSHR HD	5
3	CP	66714	H	SCREW, PAN HEAD SWAGEFORM	2
4	KIT	Y3CAGEE	-	KIT RACK WIG RAILS - 10-32 CAGE NUT	1
5	MA	17501569	-	SIDE AIR SEAL KIT, 9513, 44U	1
6	MA	25564X	-	LACING BAR - 44U X 4.5"W	1
7	MA	ADJCHAS2032	-	ADJ. CHASSIS BRKTS, 20" TO 32"	1
8	MA	CHBPBRSH2U	-	ASSY. CABLE PASS THRU PANEL	1
9	SM	23949X	-	PANEL, AIR SEAL, 30" CAB	1
10	SM	25340X	-	PLATE, BOTTOM SEAL, 30"W X 19.5"D	1

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DESIGN MGMT SITE: PROO GRP 16 - Air Flow Management		COLOR: N/A		OTHER: NOTED		SHEET: 1 OF 2	
MATERIAL: OTHER: NOTED		MATERIAL FINISH: Powder Coat - Variable		SPEC #:		REV: -	
DRAWN IN: 10/15/12		10/15/12		EPR123711		ECN OR EPR NUMBER	
10/15/12		DLucio		PRODUCTION RELEASE		CURRENT REVISION DESCRIPTION	
REV		REV. DATE		REV'D BY		REV	

PAC		44U 9513 CONVERSION KIT		FOR PM144302H OR PM143048H	
SHEET: 1 OF 2		REV DATE: 10/15/12		REV	
D		9513CVK44UPM		REV	

9513CVK51UPM



BAG ALL HARDWARE.
SHIPPING WEIGHT: 50 LBS

ITEM	TYPE	DOCUMENT #	REV	DESCRIPTION	QTY
10	SM	25340X	-	PLATE, BOTTOM SEAL, 30"W X 19.5"D	1
9	SM	23949X	-	PANEL, AIR SEAL, 30" CAB	1
8	MA	CMBPBRSH2U	-	ASSY. CABLE PASS THRU PANEL	1
7	MA	ADJCHAS2032	-	ADJ. CHASSIS BRKTS, 20" TO 32"	1
6	MA	25566X	-	LACING BAR - 5IU X 4.5"W	1
5	MA	17501570	-	SIDE AIR SEAL KIT, 9513, 5IU	1
4	KIT	V3CAGEE	-	KIT RACK MIG NAILS - 10-32 CAGE NUT	1
3	CP	667714	H	SCREW, PAN HEAD SWAGEFORM	2
2	CP	54348	-	SCREW 1/4-20X1 1/2 HEX WSHR HD	5
1	CP	18209	-	KEP NUT, HEX, 1/4-20 NICKEL	2

CAGE NUMBER: 81824		ORIG EPR: EPRI23711	REV	DESCRIPTION	QTY
DESIGN MGMT SITE: PROJGRP 18 - Air Flow Management		DES. BY: Dluccio	10/15/12		
WORKCELL: Workceller		COOR: -	10/15/12		
MATERIAL: M/A		CRS GA: M/A			
MATERIAL FINISH: Powder Coat - Verifiable		OTHER: NOTED			
SPEC #:					

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CHECKED BY: [Signature]		APPROVED BY: [Signature]		DATE: 10/15/12	



REV	10/15/12	Dluccio	PRODUCTION RELEASE	EPRI23711	ECN OR EPR NUMBER
REV	REV. DATE	REV'D BY	CURRENT REVISION DESCRIPTION		

5IU 9513 CONVERSION KIT		FOR PM1313042H OR PM1313048H	
SHEET: 1 OF 2		REV DATE: 10/15/12	REV
D		9513CVK51UPM	-

This diagram shows an exploded view of a mechanical assembly. The components are labeled with circled numbers 1 through 9. The assembly includes a base plate (8), a central shaft or rod (9), a long rectangular component (6) with internal slots, a smaller rectangular component (5) with a grid pattern, a long thin component (7) with a central slot, and a small rectangular component (4) with a grid pattern. A long thin component (3) is also shown. The components are arranged in a way that shows their relative positions and how they fit together.

I. BAG ALL HARDWARE

9	SM	26152X	-	-	LACING BAR - 420 H. 8"W	2
8	SM	25337X	-	-	PLATE, BOTTOM SEAL, 30"W X 11"D	1
7	SM	23949X	-	-	PANEL, AIR SEAL, 30" CAB	1
6	MA	AJUCHSZ032	-	-	ADJ CHASSIS BRKTS, 20" TO 32"	1
5	CP	C7941-1032-38	-	-	-J" NUT, #10-32	8
4	CP	8742Z	-	-	10-32 PHILIPS SCREW	8
3	CP	6671A	-	-	SCREW, PAN HEAD SWAGFORM 2	20
2	CP	54348	-	-	SCREW 1/4-20X1/2 HEX WSHR HD	2
1	CP	18209	-	-	KEP NUT, HEX 1/4-20 NICKEL	2
ITEM	TABLE	DOCUMENT #	REV		DESCRIPTION	QTY

8		THIS DRAWING CONTAINS NO CONFIDENTIAL INFORMATION AND IS NOT TO BE RELEASED TO THE PUBLIC OR TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE APPROVAL OF THE AIR FORCE. IT IS THE PROPERTY OF THE AIR FORCE AND IS TO BE RETURNED TO THE AIR FORCE WHEN REQUESTED.		CASE NUMBER: 81824 DES. BY: DLUCIO DRWN. BY: DLUCIO DESIGN RIGHT SITE: PROD GRP 16 - Air Flow Management		DATE: 10/03/12 REV: 10/03/12			42U 7010 CONVERSION KIT FOR MH24048H
		MATERIAL: Worceller COLOUR: W/A FINISH: CONGR.		MATERIAL FINISH: Penader Coat - Variable SPEC #: D 7010C/K42U4P		SHEET: 1 OF 1 REV DATE: 10/03/12			
REV.	DATE	DESCRIPTION	RELEASE	BY	DATE	DESCRIPTION	RELEASE	BY	DATE
1	10/03/12	DLUCIO	PRODUCTION	DLUCIO	10/03/12	42U 7010 CONVERSION KIT	PRODUCTION	DLUCIO	10/03/12
2	10/03/12	DLUCIO	REVISION	DLUCIO	10/03/12	42U 7010 CONVERSION KIT	REVISION	DLUCIO	10/03/12

This exploded view diagram illustrates the assembly of a roof system. The components are labeled as follows:

- 1**: Two long, narrow panels with a corrugated or ribbed profile, likely the main roof decking.
- 2**: A long, narrow panel with a different profile, possibly a transition or end cap.
- 3**: A long, narrow panel with a corrugated profile, similar to component 1.
- 4**: A long, narrow panel with a corrugated profile, similar to component 1.
- 5**: A long, narrow panel with a corrugated profile, similar to component 1.
- 6**: A rectangular panel, likely a gable end or a side panel.
- 7**: A long, narrow panel with a corrugated profile, similar to component 1.
- 8**: A long, narrow panel with a corrugated profile, similar to component 1.
- 9**: A long, narrow panel with a corrugated profile, similar to component 1.

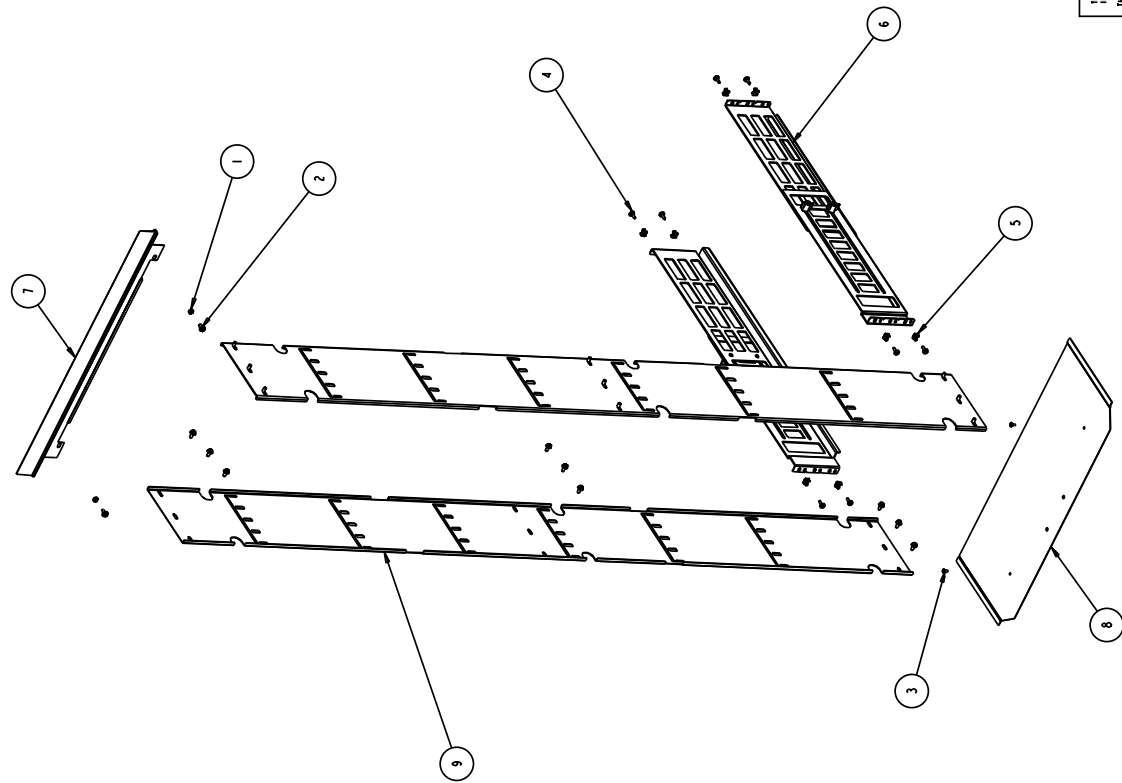
The diagram shows how these panels interlock and overlap to form a complete roof structure. Arrows indicate the direction of assembly for each component.

I. BAG ALL HARDWARE

ITEM	TYPE	QTY	DESCRIPTION
9	SM	25337X	- PLATE, BOTTOM SEAL, 30"W X 11"D
8	SM	23949X	- PANEL, AIR SEAL, 30" CAB
7	SM	22671X	A LACING BAR - 84" H, 8"W, SPECIAL
6	MA	ADJCHAS2032	- ADJ CHASSIS BRKTS, 20" TO 32"
5	CP	C7941-1032-36	- - 10-32 PHILIPS SCREW
4	CP	8742Z	- - 10-32 PHILIPS SCREW
3	CP	66714	SREW, PAN HEAD WS49H0
2	CP	54348	SCREW, 1/4-20X1/2 HEX WSHDRM
1	CP	18209	2 KEF NUT, HEX, 1/4-20 NICKEL

[illegible]

7010CVK48UPM



NOTE:
1. BAG ALL HARDWARE
2. SHIPPING WEIGHT: 46.5 LBS

9	SM	26755X	-	-	LACING BAR - 48U H. 8"W	2
8	SM	25337X	-	-	PLATE, BOTTOM SEAL, 30"W X 11"D	1
7	SM	23949X	-	-	PANEL, AIR SEAL, 30" CAB	1
6	MA	ADJCHAS2032	-	-	ADJ CHASSIS BRKTS, 20" TO 32"	1
5	CP	C7941-1032-3B	-	-	*J* NUT, #10-32	8
4	CP	81442	-	-	10-32 PHILIPS SCREW	8
3	CP	66714	H	-	SCREW, PAN HEAD SWAGELORM	2
2	CP	54346	-	-	SCREW, 1/4-20X1 1/2 HEX WSHR HD	20
1	CP	18209	-	-	KEP NUT, HEX, 1/4-20 NICKEL	2

ITEM	TYPE	DOCUMENT #	REV	DESCRIPTION	QTY
9	SM	26755X	-	LACING BAR - 48U H. 8"W	2
8	SM	25337X	-	PLATE, BOTTOM SEAL, 30"W X 11"D	1
7	SM	23949X	-	PANEL, AIR SEAL, 30" CAB	1
6	MA	ADJCHAS2032	-	ADJ CHASSIS BRKTS, 20" TO 32"	1
5	CP	C7941-1032-3B	-	*J* NUT, #10-32	8
4	CP	81442	-	10-32 PHILIPS SCREW	8
3	CP	66714	H	SCREW, PAN HEAD SWAGELORM	2
2	CP	54346	-	SCREW, 1/4-20X1 1/2 HEX WSHR HD	20
1	CP	18209	-	KEP NUT, HEX, 1/4-20 NICKEL	2

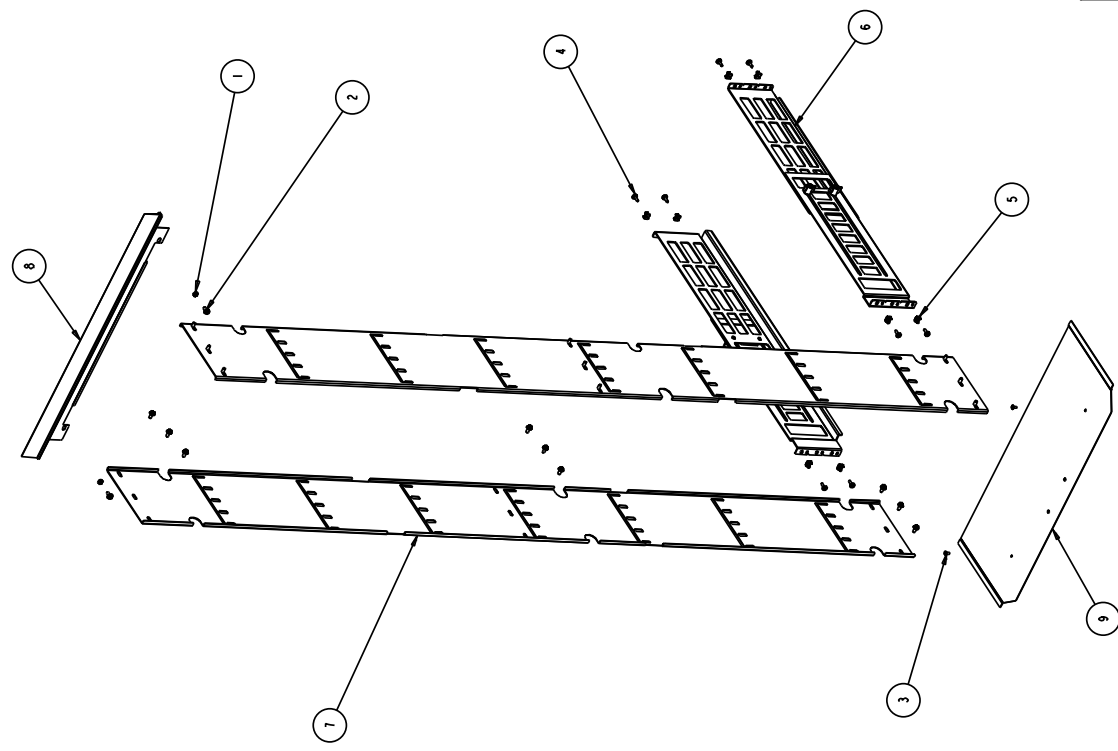
CASE NUMBER: 81824		DES. BY: Duccio	10/03/12
DRAWN BY: Duccio		10/03/12	
DESIGN NIGHT SITE: PROD GRP. 16 - Air Flow Management			
MATERIAL: N/A			
MATERIAL FINISH: Powder Coat - Variable			
SPEC #:			

10/03/12	Duccio	PRODUCTION RELEASE	EPR123711	ECN OR EPR NUMBER
REV	REV. DATE	REV'D BY	CURRENT REVISION DESCRIPTION	

SHEET: 1 OF 1		REV DATE: 10/03/12
D		REV

48U TO 10U CONVERSION KIT FOR PM483048	
--	--

7010CVK48UPM



NOTE:
1. BAG ALL HARDWARE
2. SHIPPING WEIGHT: 48.5 LBS

9	SM	25337X	-	PLATE, BOTTOM SEAL, 30"W X 11"D	1
8	SM	23949X	-	PANEL, AIR SEAL, 30" CAB	1
7	SM	22672X	A	LACING BAR - 96" H, 8"W, SPECIAL	2
6	MA	ADJCHAS032	-	ADJ CHASSIS BRKTS, 20" TO 32"	1
5	CP	C7941-1032-3B	-	"J" NUT, #10-32	8
4	CP	81442	-	10-32 PHILIPS SCREW	8
3	CP	66714	H	SCREW, PAN HEAD SWAGFORM	2
2	CP	5434B	-	SCREW, 1/4-20X1 1/2 HEX WSHR HD	20
1	CP	18209	-	KEP NUT, HEX, 1/4-20 NICKEL	2
ITEM TYPE DOCUMENT # REV DESCRIPTION QTY					
CASE NUMBER: 81824					
DESIGN BY: DLUc10 10/03/12					
DESIGN MGMT SITE: PROD GRP 16 - Air Flow Management 10/03/12					
MATERIAL: N/A					
MATERIAL FINISH: Powder Coat - Variable					
SPEC #:					
SHEET: 1 OF 1 REV DATE: 10/03/12					
D 7010CVK51UPM REV -					

REV	10/03/12	DLUc10	PRODUCTION RELEASE	EPR123711
REV	DATE	REV'D BY	CURRENT REVISION DESCRIPTION	ECN OR EPR NUMBER

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