

**RACK-325A CHASSIS
USER'S MANUAL**

Copyright Notice

This document and product is copyrighted, August 1998, by ICP Electronics Inc. All rights are reserved. No part of this manual may be reproduced, copied, or translated without prior notice to ICP Electronics Inc.

The information provided in this document is for reference only. We do not assume any responsibility arising out of the application of the products. This manual is subject to change without any notice.

Rack-325A, ICP are trademark of ICP Electronics Inc.

Table of Contents

Chapter 1 Product Information

- 1.1 General Information
- 1.2 Product Specifications
- 1.3 Dimensions

Chapter 2 System Setup

- 2.1 The Front Panel of Rack-325A
- 2.2 Removing the chassis cover
- 2.3 Disk Drives Installation
- 2.4 The Backplane Installation
- 2.5 The Card Clamp Installation
- 2.6 Replacing the Filter

Appendix A Passive Backplane

Appendix B Exploded Diagram

Chapter 1 Product Information

1.1 General Information

Rack-325A is a 5U Height, 20 slot chassis PC/AT-compatible Rackmount chassis for Industrial applications. This rugged, all steel chassis is specially designed to work under harsh environment for high reliability application. The Rack-314A features 20 slots Passive Backplanes and ACE-932A Advanced 300 W Power Supply. Optional Power Supply available are: ACE-932T, ACE-925C, ACE-916V. Specially equipped with Keyboard Port on front and rear side for easy access.

Rack-325A will withstand shock, vibration, dust and wide range of temperature in Industrial environments. A lockable door protects drives and switches from unauthorized misuse and particle. Four cooling-fans installed inside the chassis for optimum cooling system. Four reset switches are provided for quadruple system application.

1.2 Product Specifications

General specification

- Construction : Heavy-duty steel
- Disk Driver : Four 5.25" drive and Four 3.5" drive space
- Cooling Fan : Four Ball bearing fans, over 150CFM cooling air
- Indicator : Five LEDs to monitor the status of HDD and Power Supply
- Dimension : 8.75"x17"x25.7"

Passive Backplanes (Optional)

Support BP-20S/20SD/20ST/20SQ ISA Backplane and PCI-17SQ, PCI-18SD, PCI-19S, PX-19S, PX-20S, PX-20S2 ISA/PCI Backplane.

Power Supply

Optional Power Supply for the Rack-325A are: ACE-932T/935A/925C/916V

For the DC input Power Supply, you may choose: ACE-932T, ACE-925T, ACE-925C or ACE-916V.

Working Environment

- Operating Temperature : 0~50°C
- Relative Humidity : 5~95% Relative
- Vibration : 5-17Hz, 0.1" double amplitude displacement
17-640Hz, 1.5G acceleration peak to peak
- Shock : 10G acceleration peak to peak
- EMI : meet CE, FCC

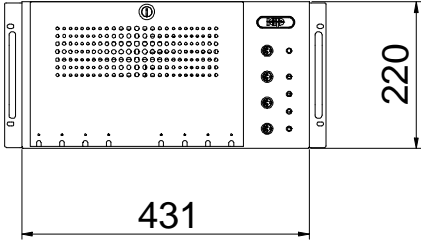
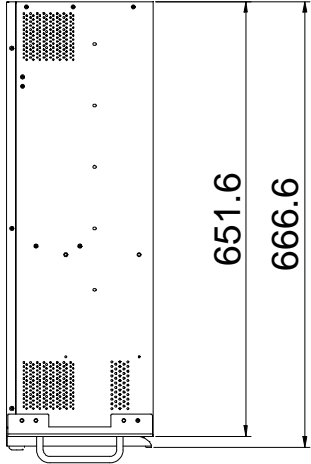
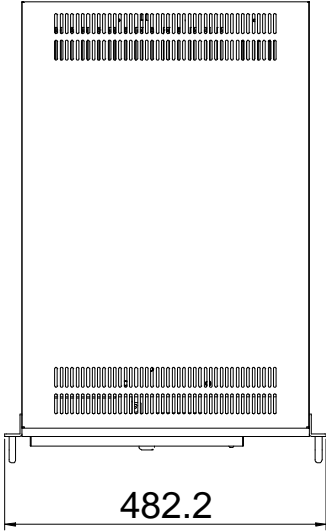
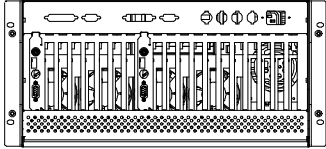
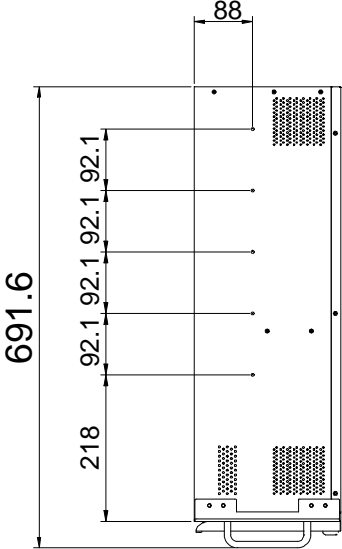
Cooling Fan

Four Ball Bearing Cooling Fan

Drive Capacity

Four 5.25" drive and four 3.5" drive space

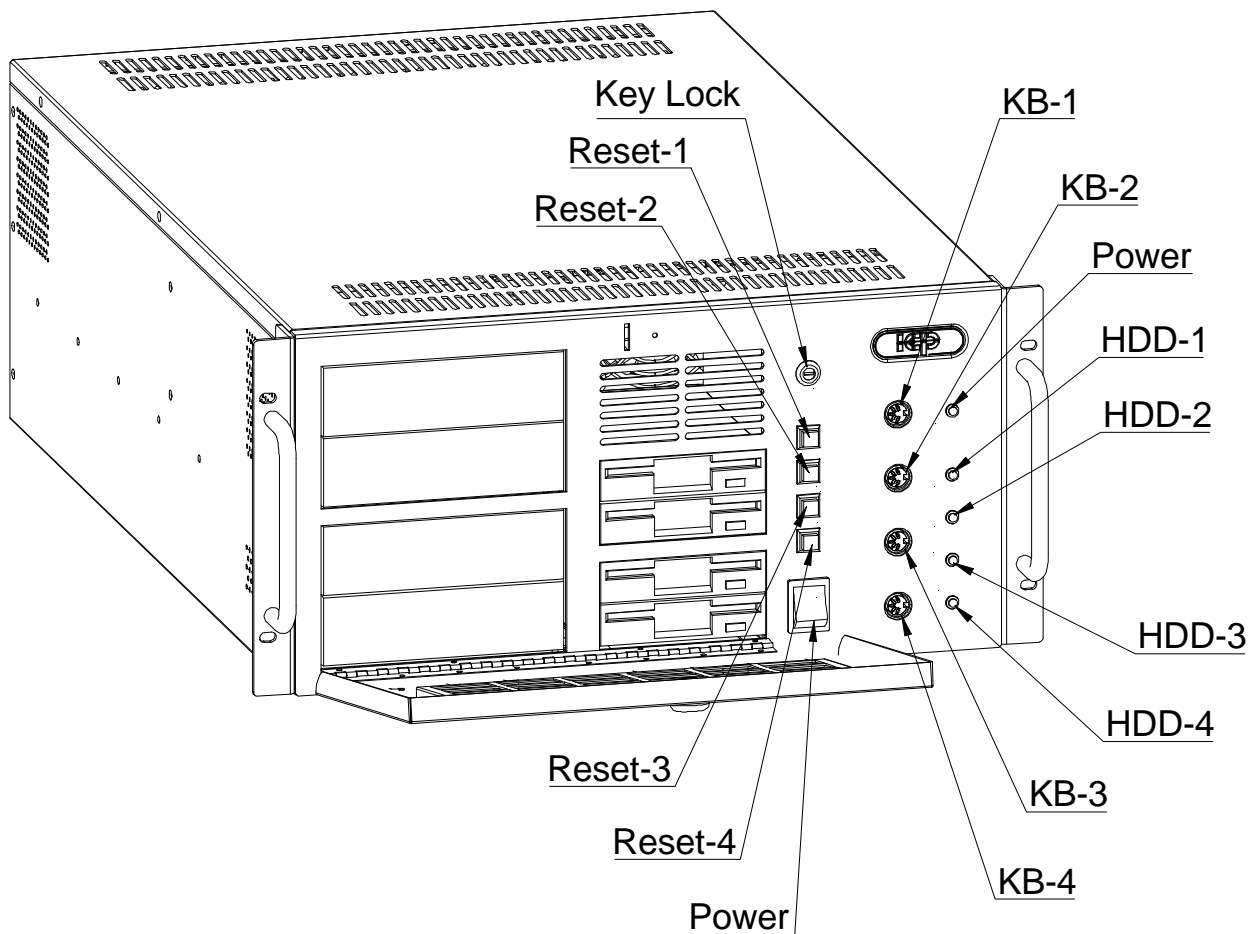
1.3 Dimensions



Chapter 2 Installation Procedure

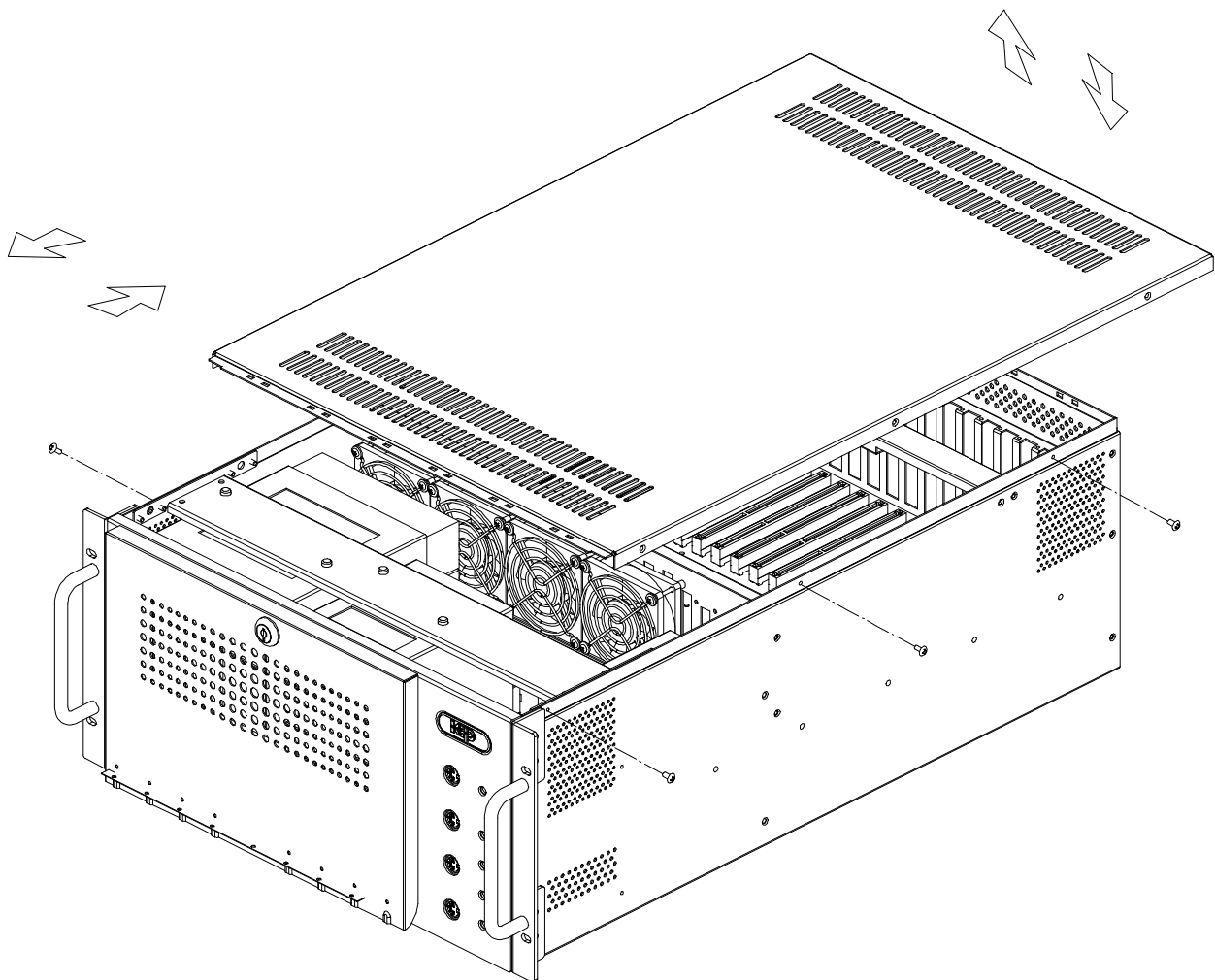
The following set up procedures are provided to assist you in installing the system unit, please follow the steps below:

2.1 The Front Panel of Rack-325A



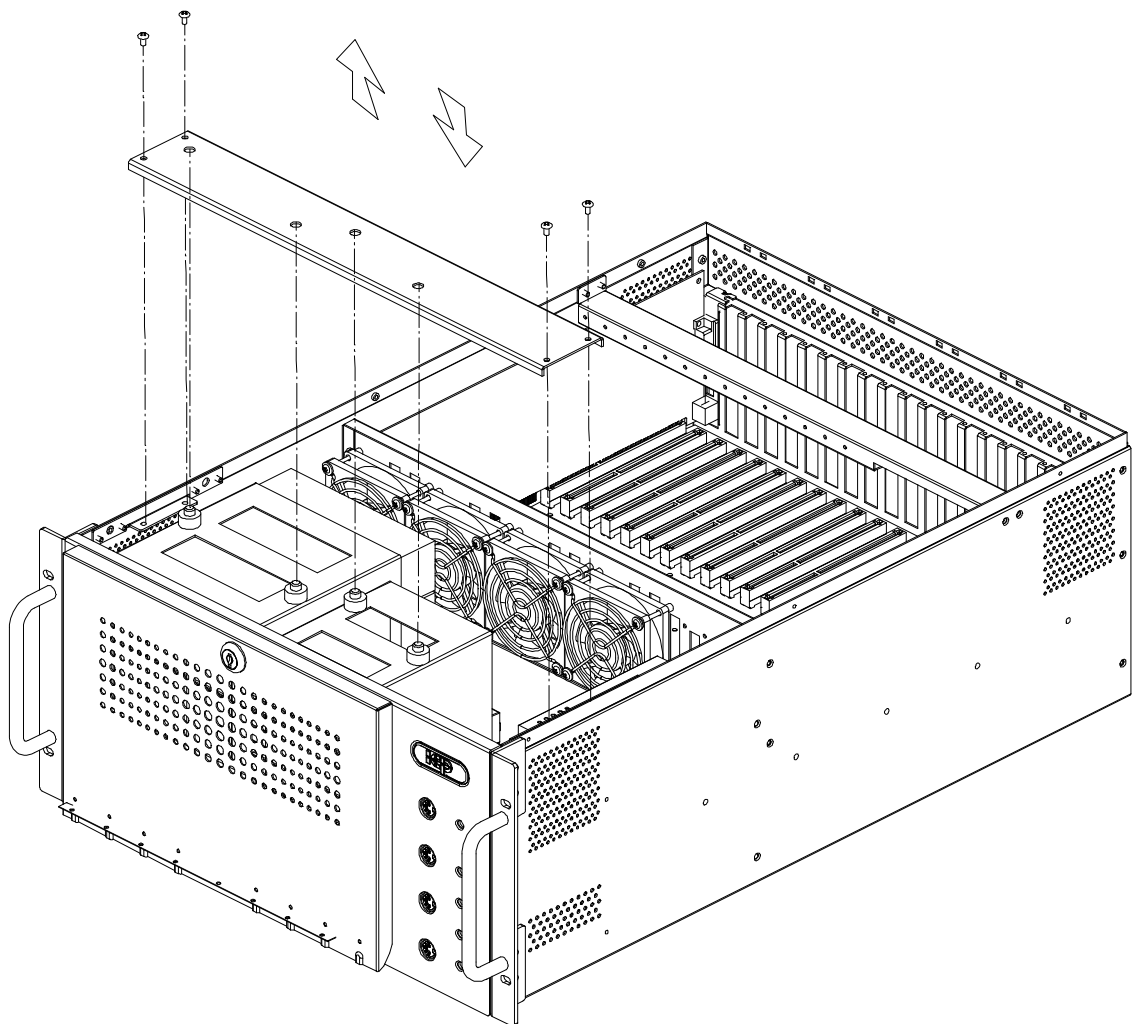
2.2 Removing the chassis cover

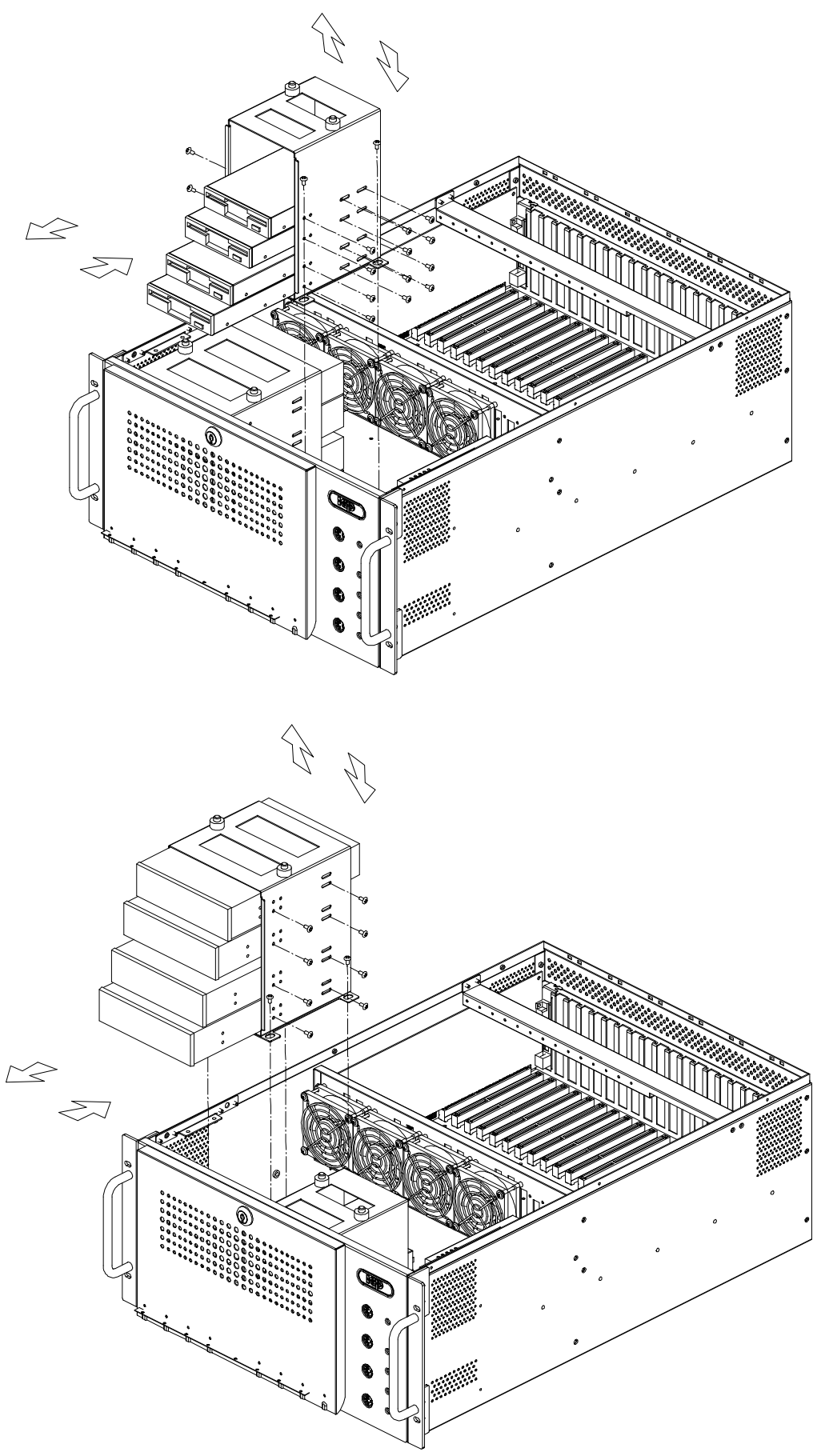
The cover is mounted by 6 screws at each side of the chassis, remove them and slide the cover to the rear of the chassis. Figure below shows how to remove the chassis cover.



2.3 Disk Drives installation

1. Open the disk drive door in the front panel
2. Remove the disk drive bay
3. Attach the FDD to the bracket with four screws and connect FDD cable & power cable to the FDD.
4. Attach the HDD to the bracket with four screws and connect a 40-pin flat cable & power cable to the HDD.

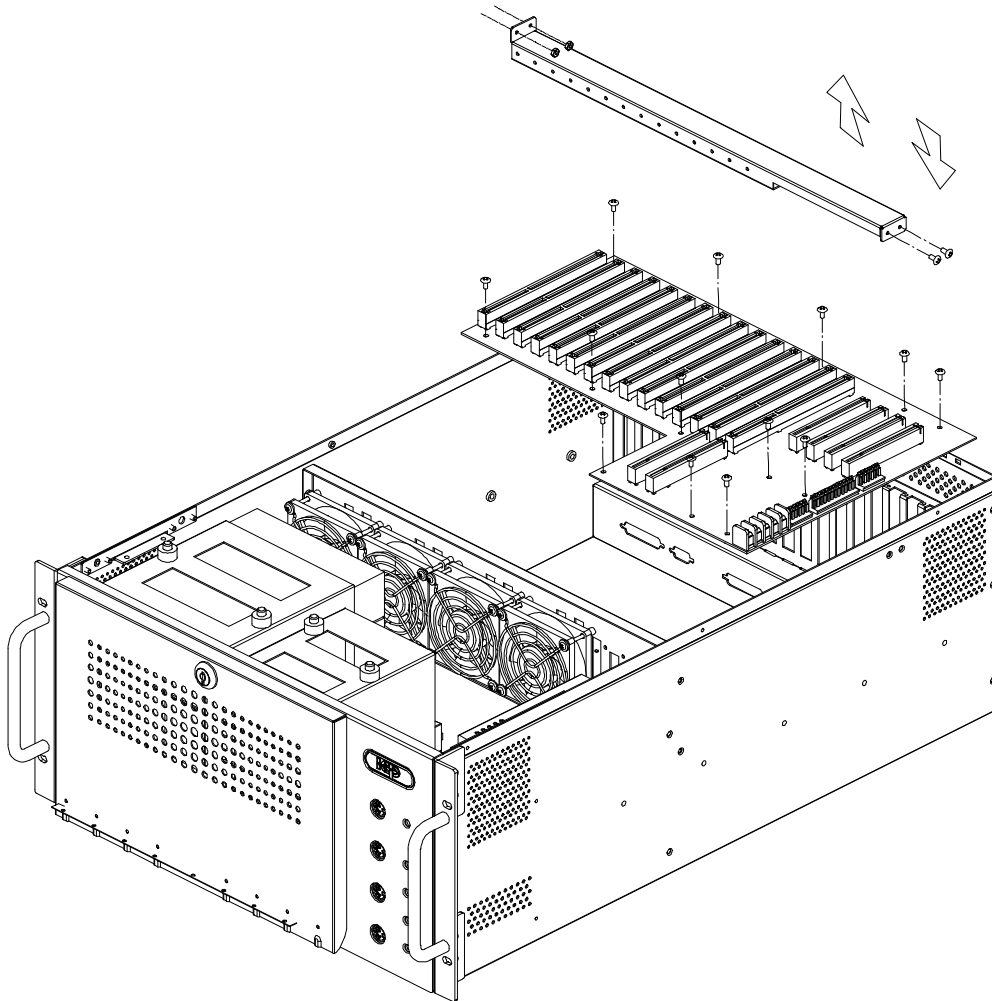


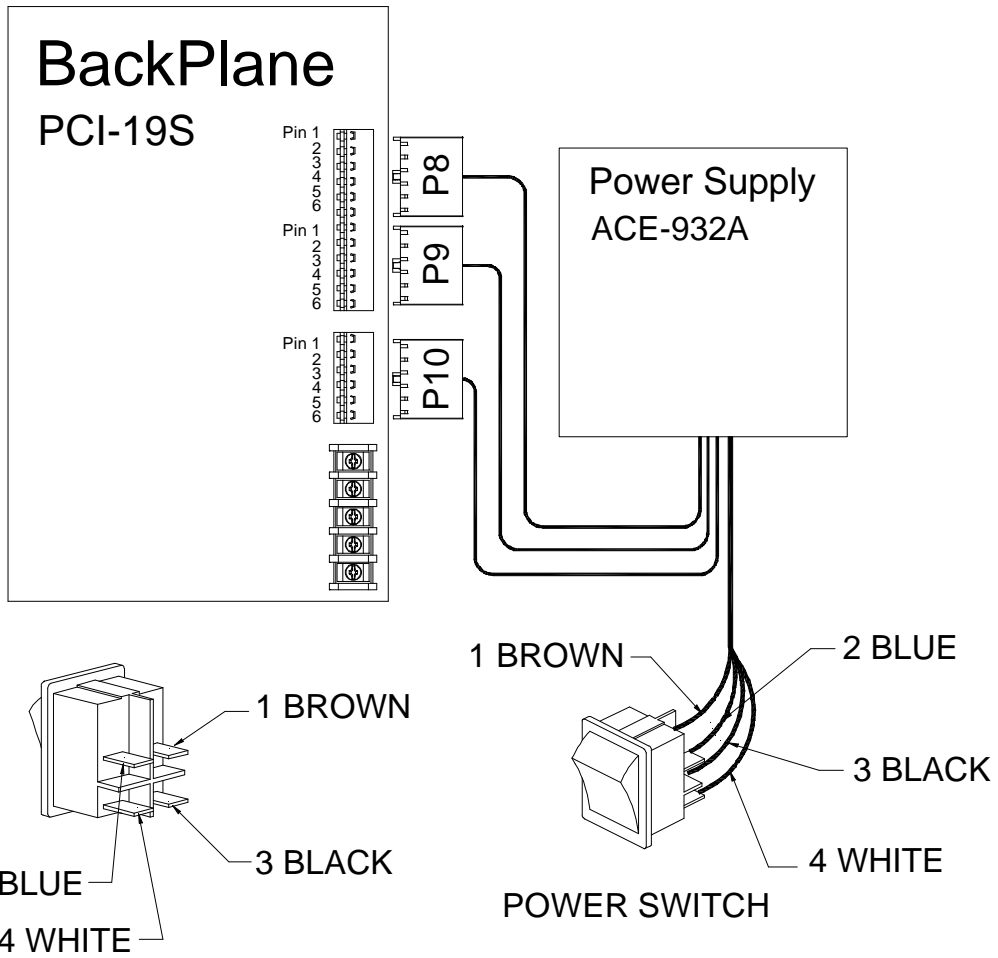


2.4 The Backplanes installation

To install the backplanes in the chassis, remove the clamp panel first, then put the backplanes inside the chassis and screw it.

Figure below illustrates how to install the backplanes on the Rack-305A.



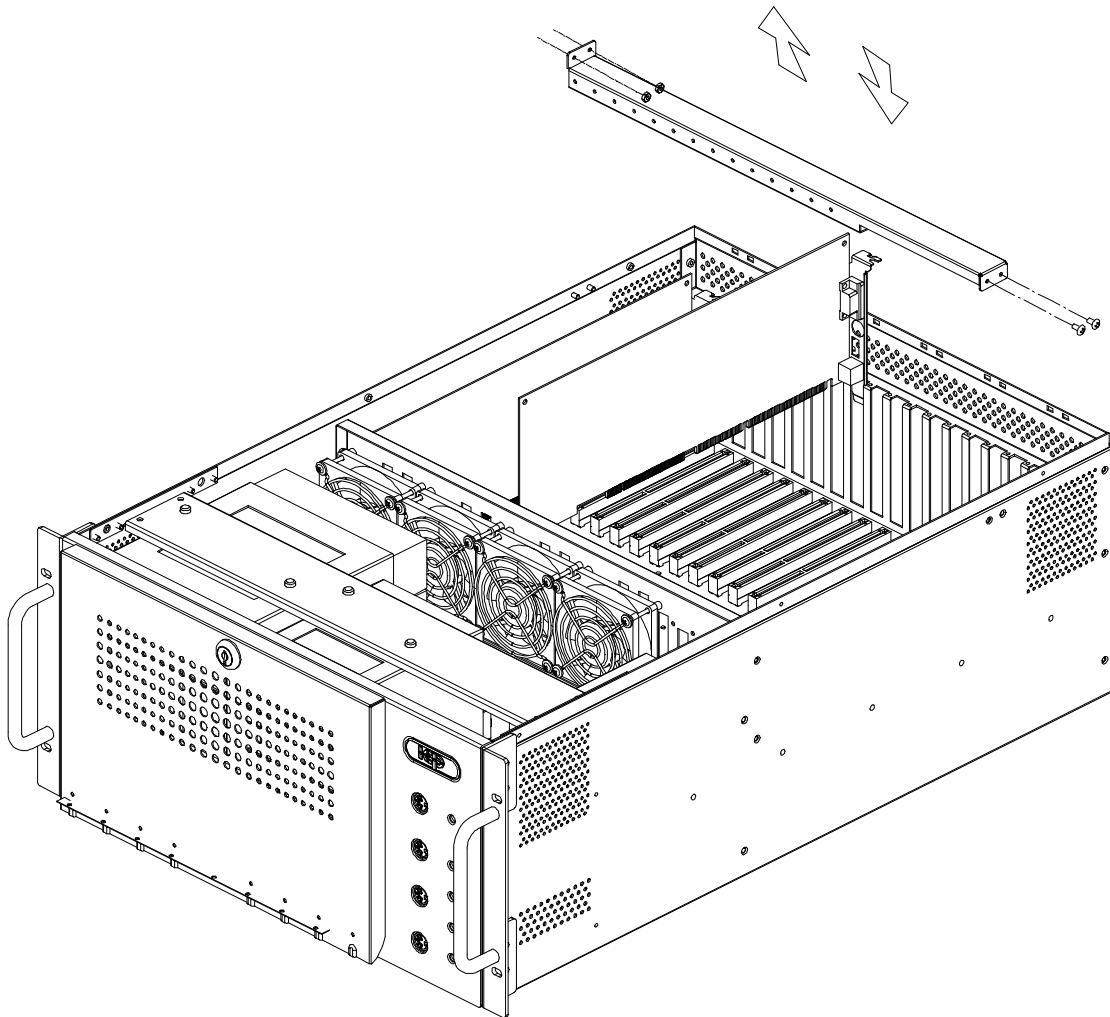


PIN DEFINITION					
P8	1	PG	P9	1	GND
	2	+5V		2	GND
	3	+12V		3	-5V
	4	-12V		4	+5V
	5	GND		5	+5V
	6	GND		6	+5V
P10	1	+5V			
	2	+5V			
	3	+5V			
	4	GND			
	5	GND			
	6	GND			

2.5 The Card Clamp Installation

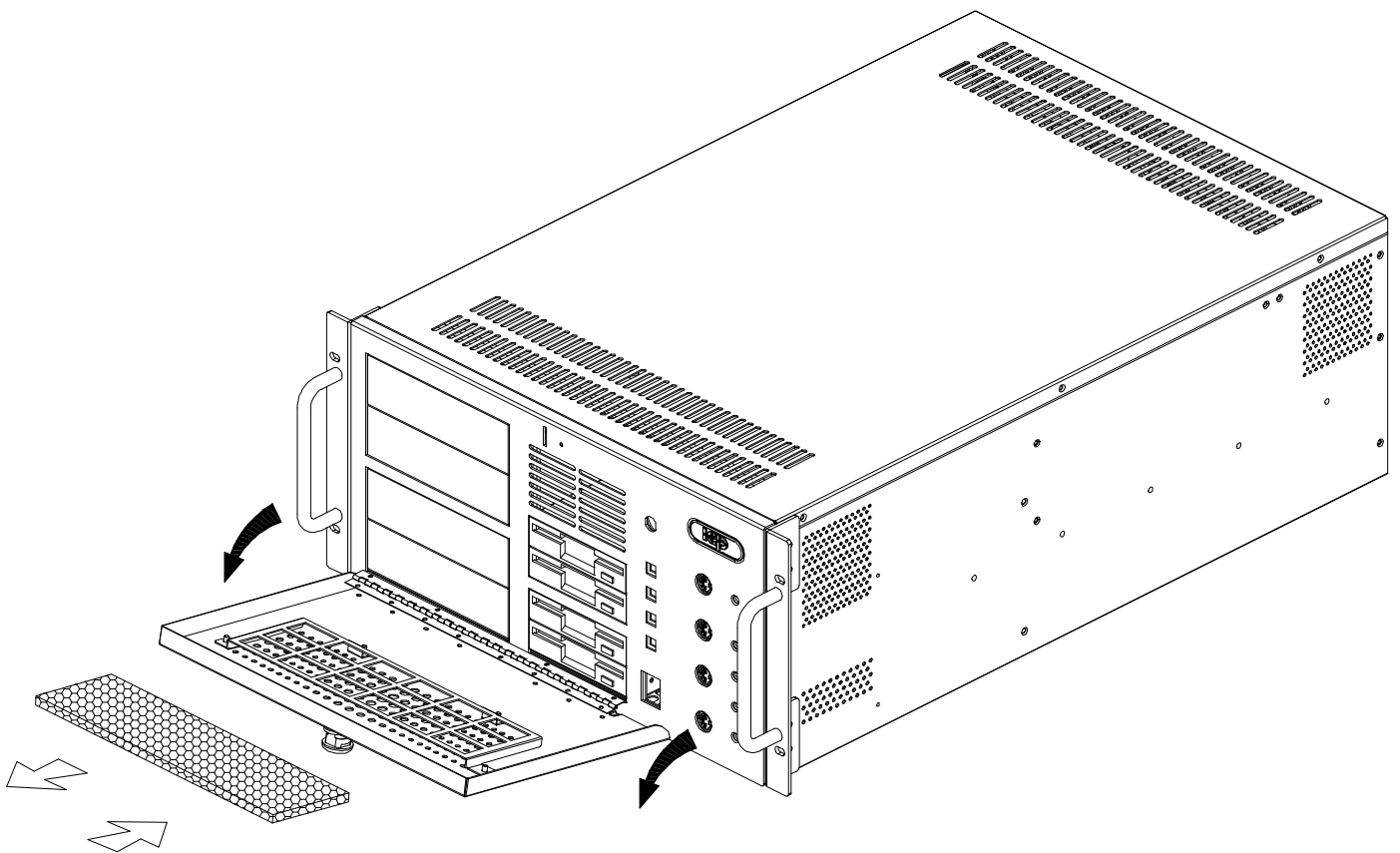
The card clamp is designed to hold the add-on cards to fix securely into the ISA/PCI slots, thus preventing them from vibrating. You may install the Card Clamp after inserting all the add-on cards in the backplane by following the steps below:

1. Place the Card Clamp into the chassis side with the 2 fixed screws on the chassis. Screw the other side from the side of the chassis.
2. If the add-on card is too short, use the holding clamp to hold the card and fix the holding clamp by screws.
3. When you are finished put the screw on the other side of the Card Clamp.

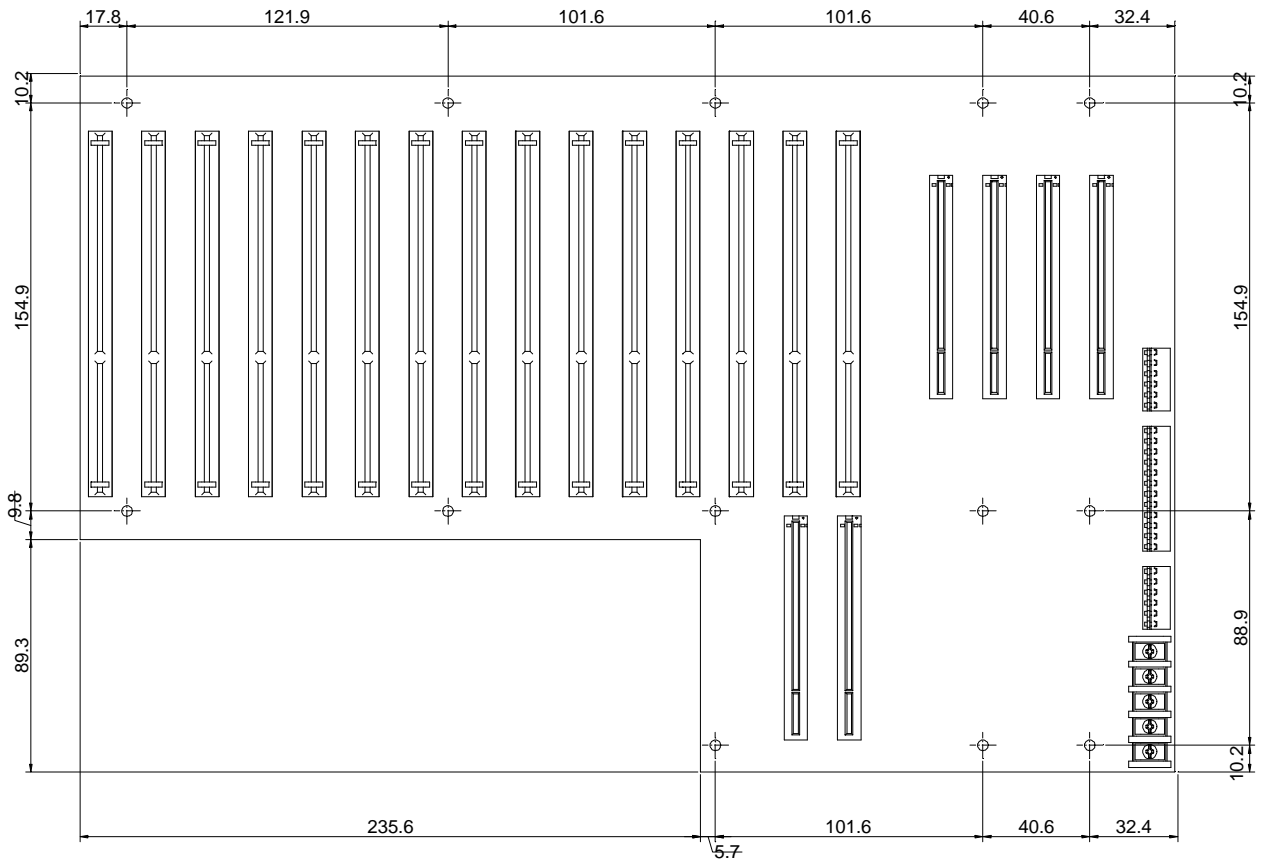


2.6 Replacing the Filter

The filter of the Rack-325A is located at the front end of the chassis. The filter should be removed and cleaned at least once a month to achieve optimum performance. The filter can be removed simply by turn the key-lock to the counter clock-wise direction. Take out the old filter, replace it with the new one if it's already worn out. Then close and lock the filter door.



APPENDIX A PASSIVE BACKPLANES



APPENDIX B EXPLODED DIAGRAM

