



Dismantling Guide

BMR1200A Platform

Part No. BGD00115 Rev. A00

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Preface

About This Guide

This manual is intended for technicians who dismantle the BMR1200A platform.

Document Conventions

Notices

BigBand Networks emphasizes the importance of carefully following all procedures described in this guide to prevent personal injury. The user should pay careful attention to sections that contain the following conventions:



Note: Information presented in this format is very important in the associated context. Please pay particular attention to the text conveyed as as a Note.



Warning: Information presented in this format identifies a potentially dangerous situation involving heavy equipment. Use the advice in this text to avoid bodily injury.



Special Handling: Information presented in this format indicates special care must be applied when disposing or recycling the component.

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1 Policy Statement

BigBand Networks recognizes the importance of developing video and data platforms that not only enable our customers to accomplish more with their networks, but also protect the environment and ensure that future generations enjoy its bounties. BigBand Networks is committed, therefore, to meeting the requirements of the European Union's WEEE (waste electrical and electronic equipment) directive. The directive mandates how the materials used in electrical and electronic equipment must be disposed of.

BigBand Networks has worked closely with its suppliers to eliminate hazardous materials from its products. There are instances, however, where it has not proven possible to completely eliminate all hazardous materials. Consequently, all applicable products are labeled with a crossed-out "wheelie" symbol, indicating that special care must be applied to their disposal and / or recycling.

Additionally, BigBand Networks has instituted a take-back program to assist our customers with proper disposal of applicable products. The company is also ready to work with equipment recyclers.

For more information about the WEEE requirements in each European country covered by the WEEE directive and how to comply with them, refer to the following link:

<http://www.bigbandnet.com/company/weee.php>

2 Dismantling Instructions

This chapter provides detailed instructions for dismantling the BMR1200A. Follow the instructions in the order they are presented.

2.1 General Preparations

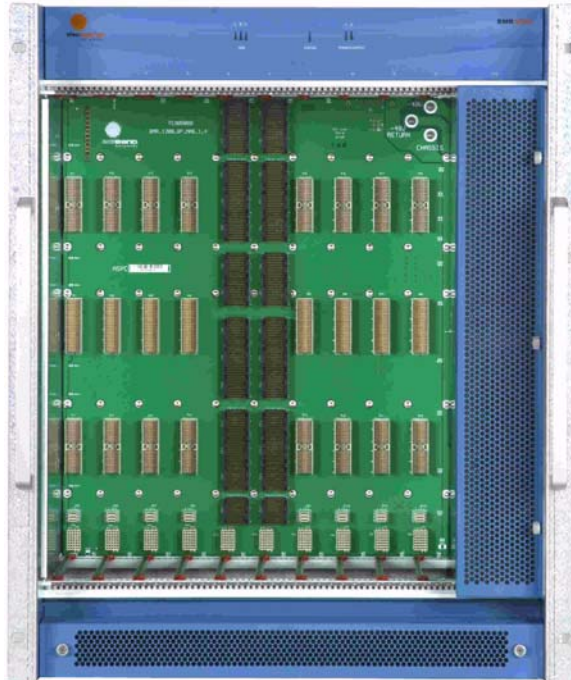
Have the following tools ready before you start to dismantle the BMR:

- Torx 20
 - Torx 10
 - Torx 8
 - Philips screwdrivers
-

2.2 Dismantling the BMR1200A

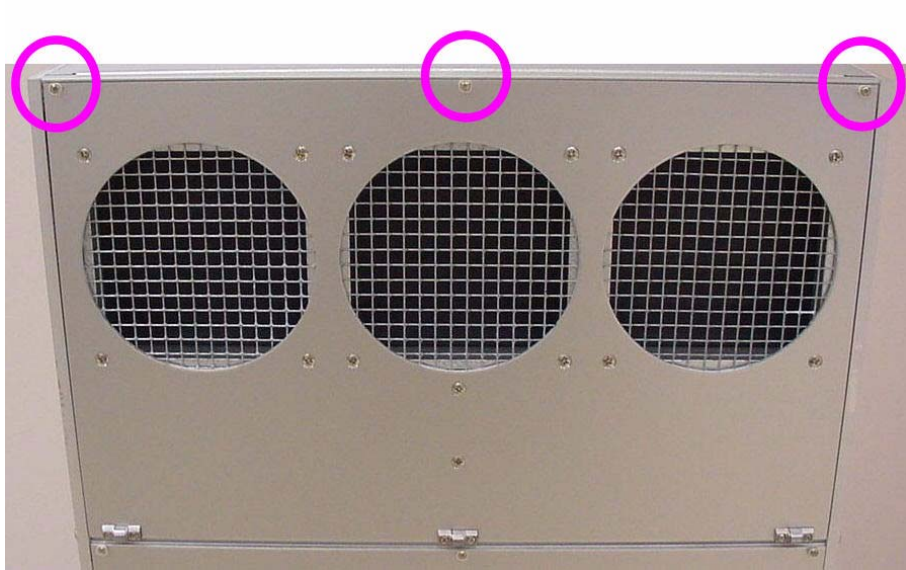
The BMR1200A is presented in [Figure 2-1](#).

Figure 2-1 BMR1200A Chassis - Front View



To dismantle the BMR1200A:

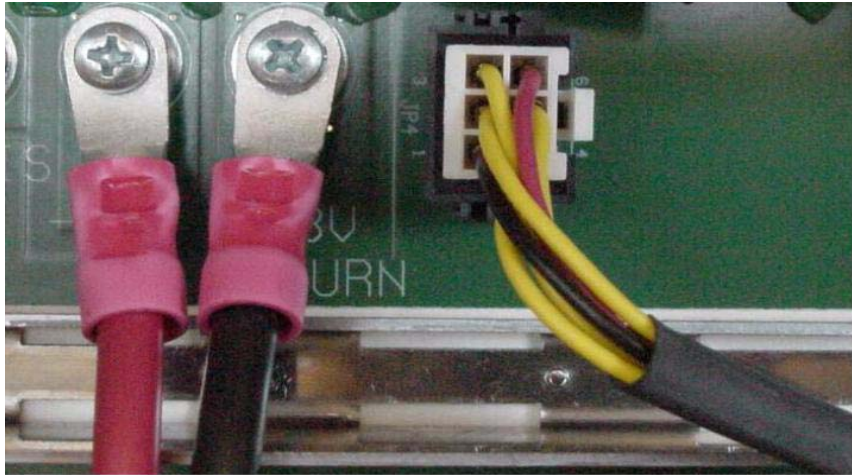
1. From the front of the chassis, remove the blue panel on the right side by releasing the three captive screws.
2. From the front of the chassis, remove the blue panel on the bottom by releasing the two captive screws.
3. On both front sides of the chassis, remove the four screws holding the handles. Hold the handle as you remove the last screw, since the handle will fall off. Use a Tork 20.
4. On the back of the chassis, unscrew and release the three captive screws holding the fan assembly to the top of the back panel. See [Figure 2-2](#).

Figure 2-2 Opening the Fan Assembly Door

5. Open the rear panel so that the fan assembly hangs freely on its hinges (Figure 2-3). Note the JP4 cable connecting the rear panel fan assembly with the backplane.

Figure 2-3 Rear Panel with Fan Assembly Door Hanging Freely



Figure 2-4 Fan Assembly Connector at Backplane

6. Disconnect the fan cable from its connector (JP4) in the backplane by pressing the cable clip downward and pulling outward.
7. Fold the cable back over the door so it does not get caught when the door is removed (Figure 2-5).

Figure 2-5 Removing the Fan Cable from the Chassis Interior

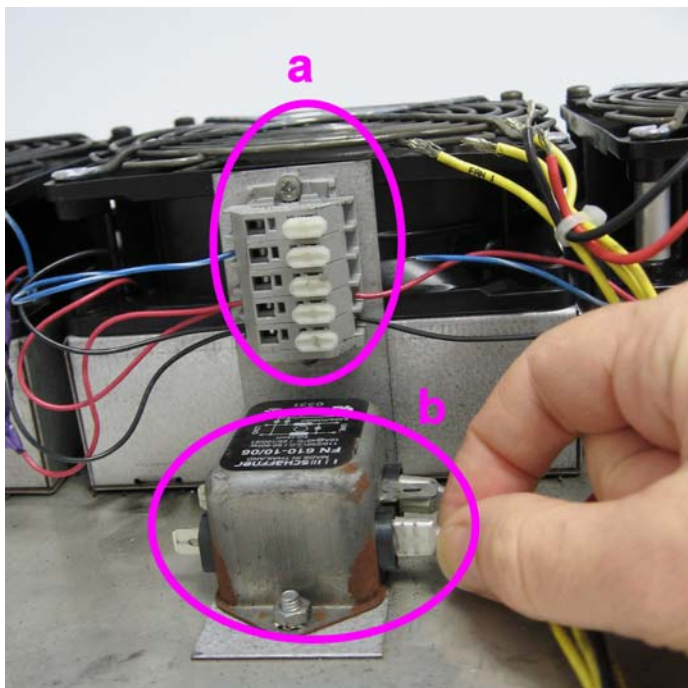
8. To free the door from its hinge:
 - a. Grasp the door with both hands holding the door at an angle of approximately 135° with its vertical (closed) position.
 - b. Slide the door leftward off its hinges, taking care that all three hinges are freed at the same time. Take care to grip the door firmly as you do this, so it does not slip when it comes off its hinges (Figure 2-6).
 - c. If the door does not come right off its hinges, jiggle it until it does.

Figure 2-6 Rear Panel Fan Assembly Removal

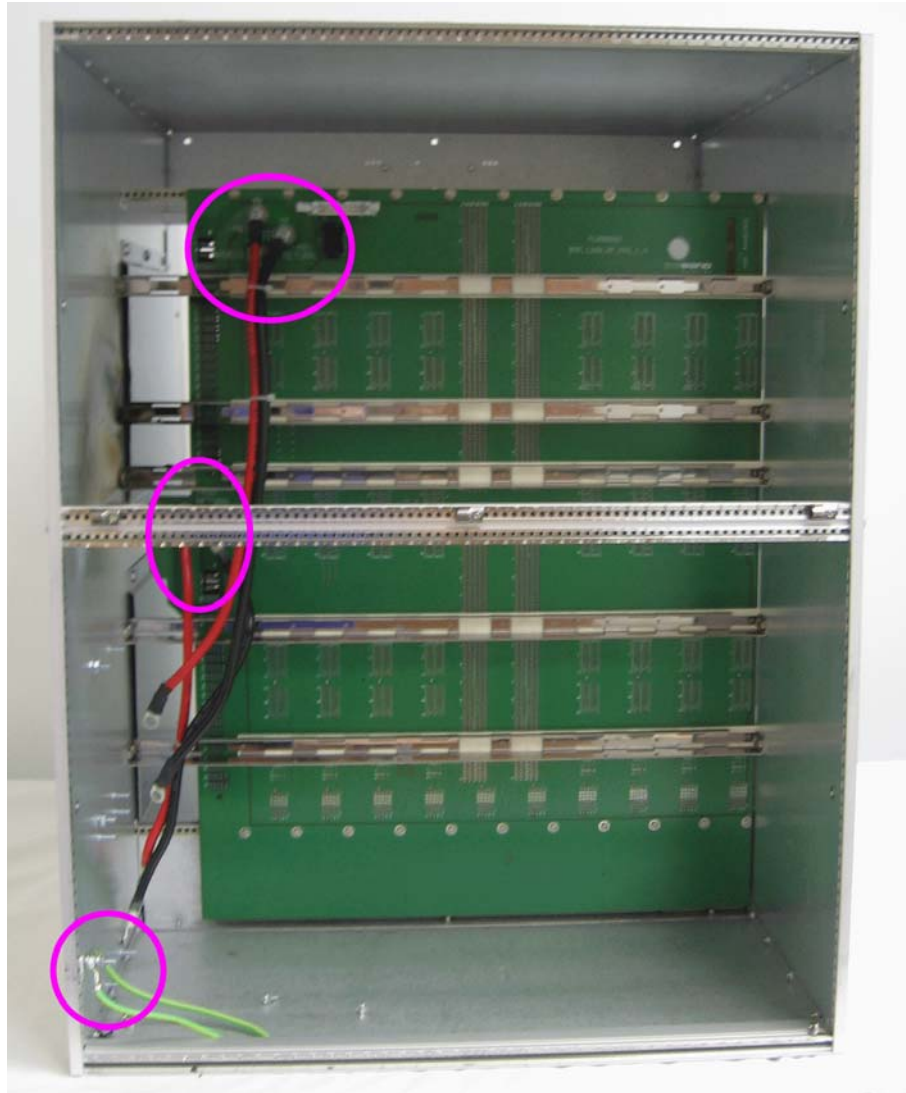
9. Remove the six screws from the bottom back panel, and remove the panel. The chassis appears as in [Figure 2-7](#).

Figure 2-7 Chassis Rear View - without Rear Panels

10. Remove the wires from the fan assembly:
 - d. Depress the white plastic pins and pull out the five red, yellow and black wires from the cable connectors (Figure 2-8-a).
 - e. Remove the two black and two red wires from the filter (Figure 2-8-b).

Figure 2-8 Disconnecting the Fan Assembly Wiring

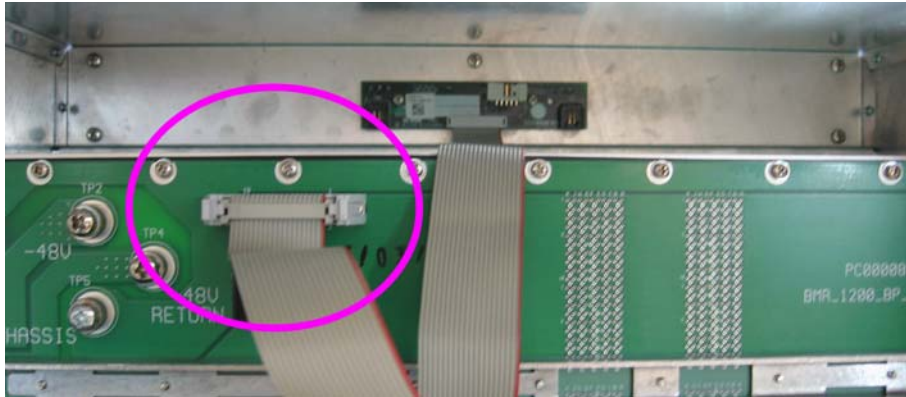
11. From the back of the chassis, on the lower left side, remove the two ground cables (Figure 2-9). Use a Philips screwdriver.
12. From the back of the chassis, disconnect the power supply cables from the power supplies and the backplane (Figure 2-9). Use a Philips screwdriver.

Figure 2-9 Chassis Rear View - Location of Power and Ground Cables

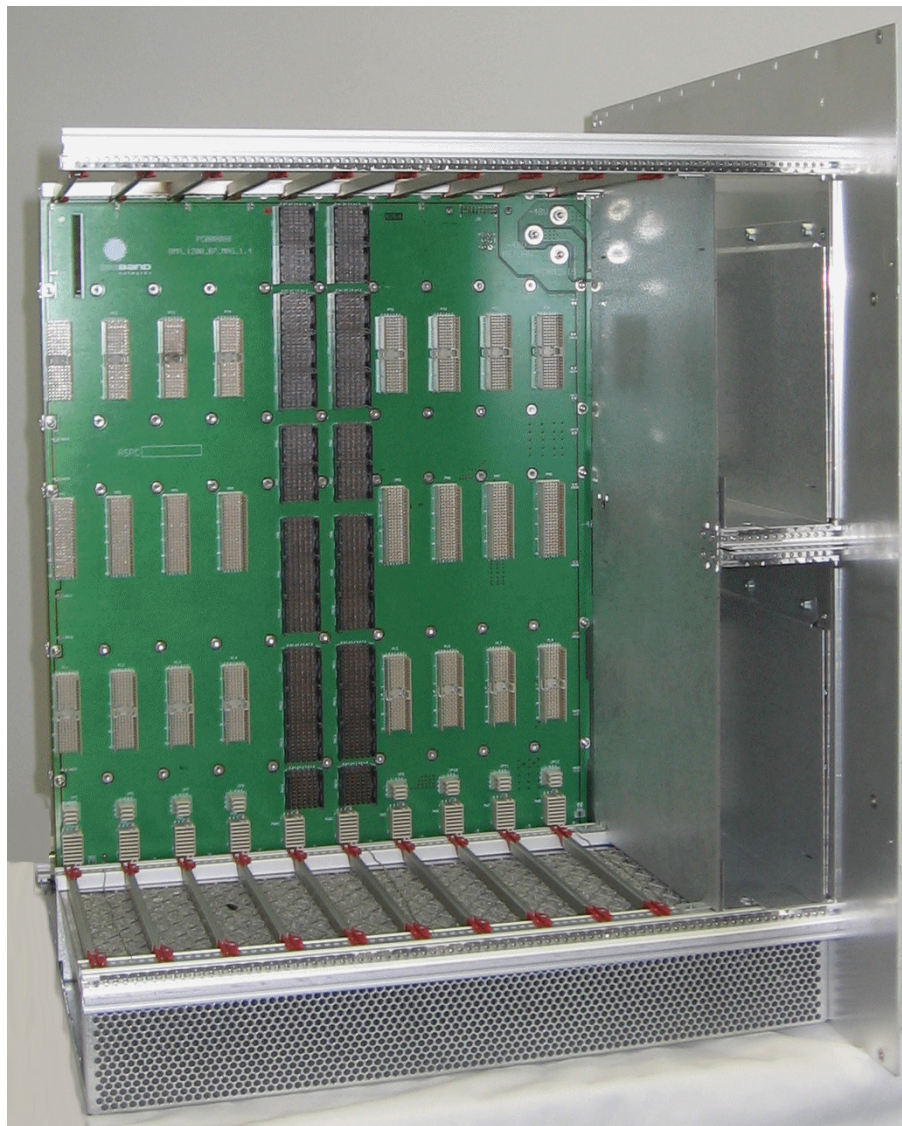
13. Remove the 51 screws on the left side of the chassis and remove the side cover. Use a Tork 20. In addition, the rear vertical strip and the vertical strip in the middle of the chassis are released. The chassis now appears as in [Figure 2-10](#).

Figure 2-10 Chassis after Removal of Left Side Panel

14. From the back of the chassis, disconnect the flat cable from the back of the backplane (the other end is connected to the LED card). See [Figure 2-11](#).

Figure 2-11 Removing the Flat Cable from the Top of the Backplane

15. Remove the top row of screws on the right side panel (that connect the top cover), then remove the top cover. Use a Tork 20. The chassis now appears as in [Figure 2-12](#).

Figure 2-12 Chassis Front View - after Removing the Top and Left Covers

16. Remove the LED card from the top cover using a Philips screwdriver (Figure 2-13).

Figure 2-13 Removing the LED Card from the Top Cover (Top Cover Upside Down, view from Back)

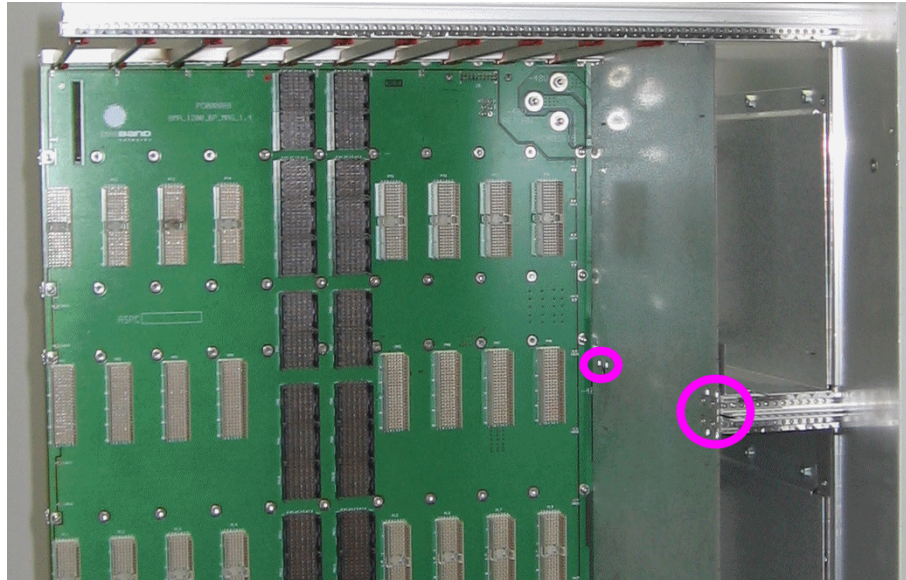


17. Remove the front top panel from the top cover by removing the six screws on the inside of the top cover (Figure 2-14).

Figure 2-14 Removing the Front Panel from the Top Cover (Top Cover Upside Down, view from Back)



18. Inside the chassis on the right side, remove the five screws holding the power supply shelves to the support rails (Figure 2-15). Use a Tork T20.

Figure 2-15 Removing Screws Holding the Power Supply Shelves

19. Remove the power supply shelves (Figure 2-16).

Figure 2-16 Removing the Power Supply Shelves

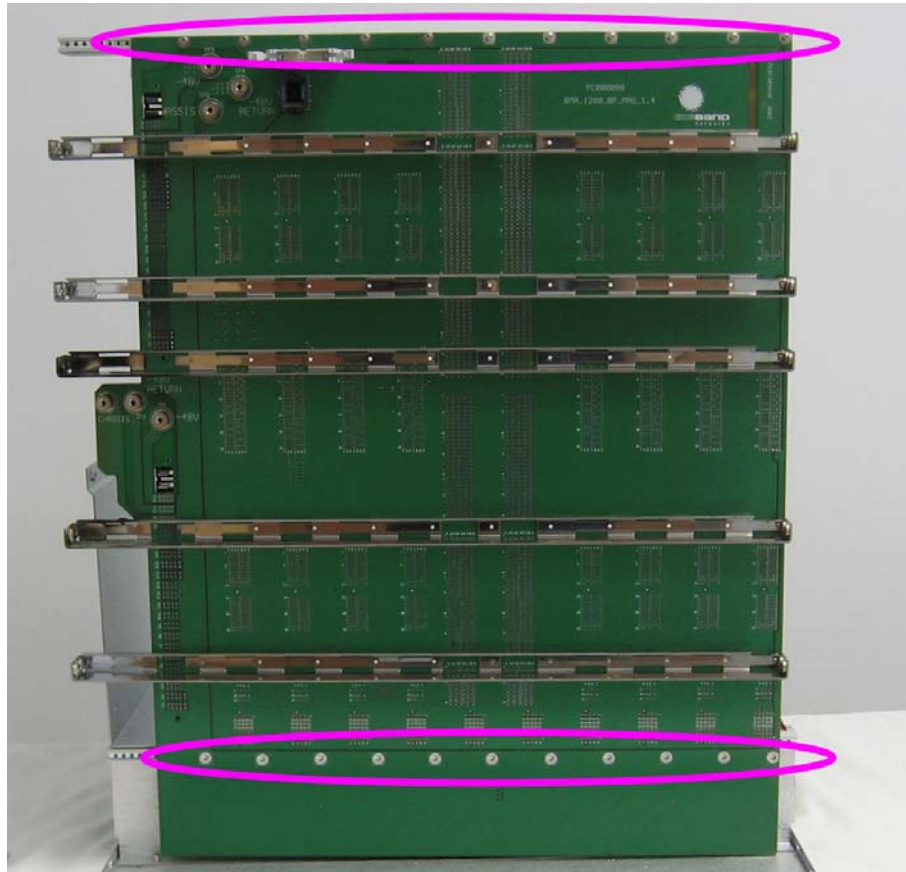
20. Remove the remaining screws from the right side cover. Use a Tork T20.
21. Remove the right side cover. The two support rails for the power supply shelves are also released, as is the vertical strip at the rear of the chassis.

The chassis now appears as in [Figure 2-17](#).

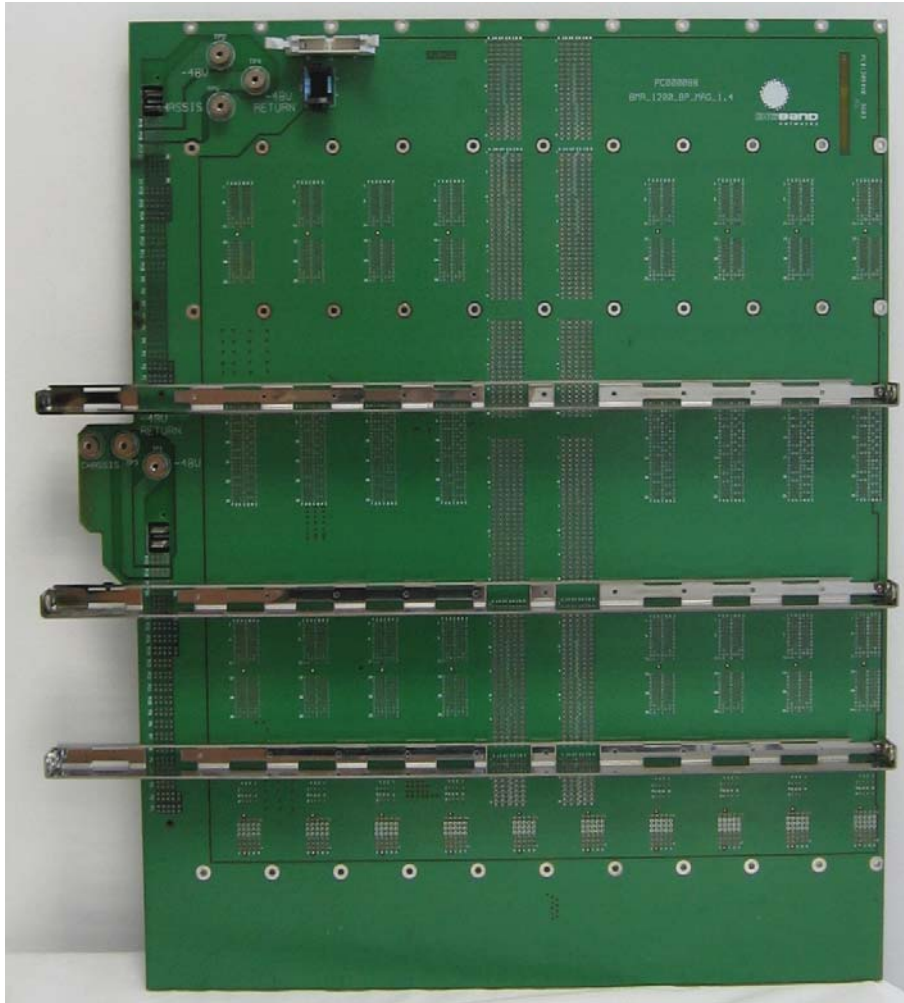
Figure 2-17 Chassis Rear View - after Removing Top and Side Covers

22. From the back of the backplane, remove the 11 screws attaching the backplane to the lower inside support rails (Figure 2-18). Use Tork T8. Remove the backplane and the lining strip that is between the backplane and the support rail.

Figure 2-18 Screws holding the Backplane to the Support Rails



23. On the front of the backplane, remove the 55 screws attaching the five support rails. Use a Tork T8.
[Figure 2-19](#) shows the backplane after two of the support rails have been removed. There is a lining strip between each support rail and the backplane that is released as you remove the rail.

Figure 2-19 Backplane after Removing Two Support Rails

24. Return to what remains of the chassis, and remove the slide rails assembly from the base. The remaining pieces are presented in [Figure 2-20](#).

Figure 2-20 Base and Slide Rails Assembly

25. Remove the four screws holding the two sets of slide rails to the vertical plate. Use a Philips screwdriver.
26. Remove the screws from the slide rails using a torx 8.
27. Remove the plastic connectors from both ends of the slide rails (Figure 2-21).

Figure 2-21 Removing the Connectors from the Slide Rails

28. Remove the foam pad from the bottom slide rails assembly.
- The dismantling is complete.