

# **Installation Note**

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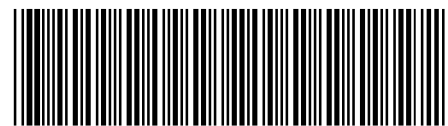
## **Agilent MXA Signal Analyzer**

### **Option MS1, Upgrade to 2 GB SDRAM**



**Agilent Technologies**

Part Number N9020-90047  
Printed in USA September 2007



N9020-90047

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## Upgrade to 2 GB SDRAM Kit

Products Affected:	MXA N9020A
Serial Numbers:	All
To Be Performed By:	(X) Agilent Service Center (X) Personnel Qualified by Agilent (X) Customer
Estimated Installation Time:	1.0 Hours
Estimated Adjustment and Verification Time:	1.0 Hours
Additional Tasks:	N/A

## Introduction

This installation note contains the instructions needed to upgrade the analyzer to 2 GB SDRAM.

## 2 GB SDRAM Installation Procedure

This installation note is part of a retrofit kit that provides all of the parts and instructions needed to upgrade the analyzer to 2 GB of total SDRAM.

### Contents

Quantity	Description	Part Number
1	Installation Note	---
1	1 GB SDRAM Board	not sold separately <sup>a</sup>
19	Pre-coated self-locking screws	0515-5074

a. Kit can be purchased as N9020AK-MS1 or as item number N9020-60032 at [www.parts.agilent.com](http://www.parts.agilent.com).

### Tools Required

- Torx Driver T-10

## Installation Procedure

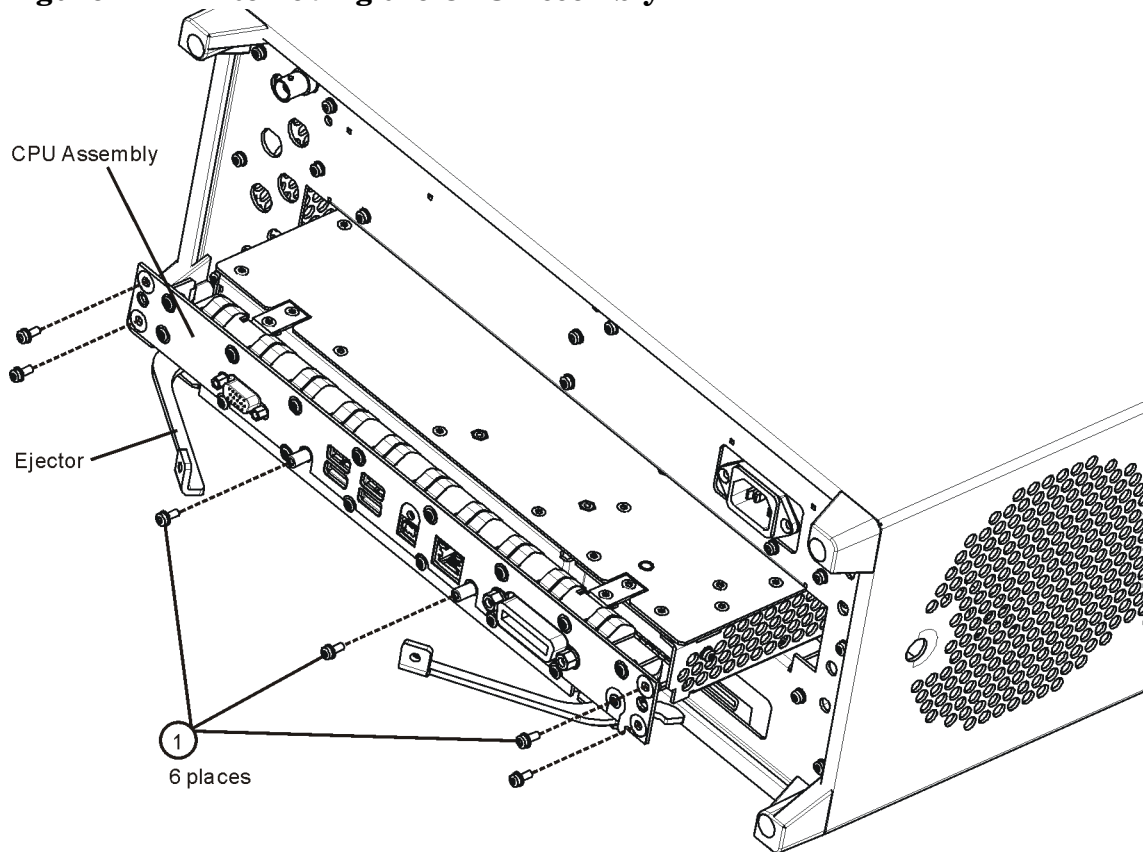
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**CAUTION** Electrostatic discharge (ESD) can damage or destroy electronic components. All work on electronic assemblies should be performed at a static-safe workstation. Refer to the documentation that pertains to your instrument for information about static-safe workstations and ordering static-safe accessories.

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1. Refer to [Figure 1](#). Locate and remove the existing CPU assembly from the instrument by removing the 6 rear panel screws (1). The CPU assembly can be removed from the chassis by pulling straight out the back. Use the two extractors to pull the CPU assembly out from the chassis.

**Figure 1** Removing the CPU Assembly



## Upgrade to 2 GB SDRAM Kit

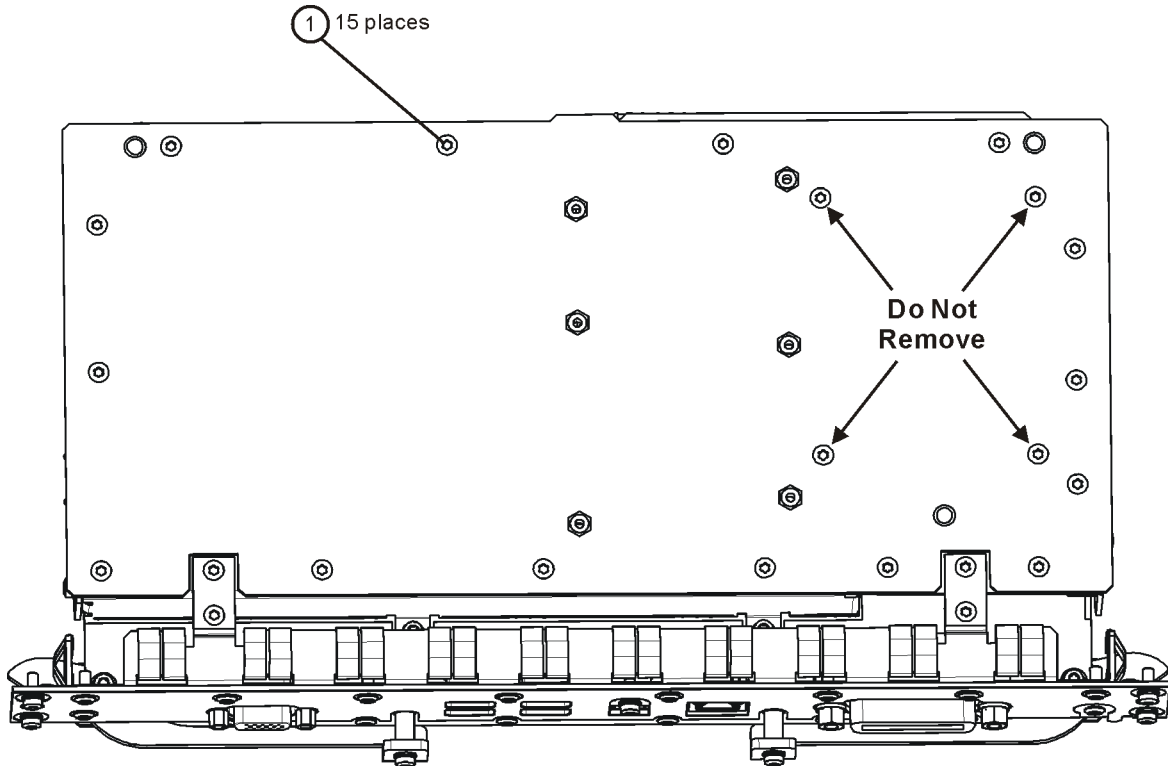
2. Refer to [Figure 2](#). Remove and discard the 15 machine screws (1) from the CPU assembly. The screws need to be discarded and replaced with the 15 screws provided in this kit.

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**NOTE** Do not remove the 4 Hard Drive screws.

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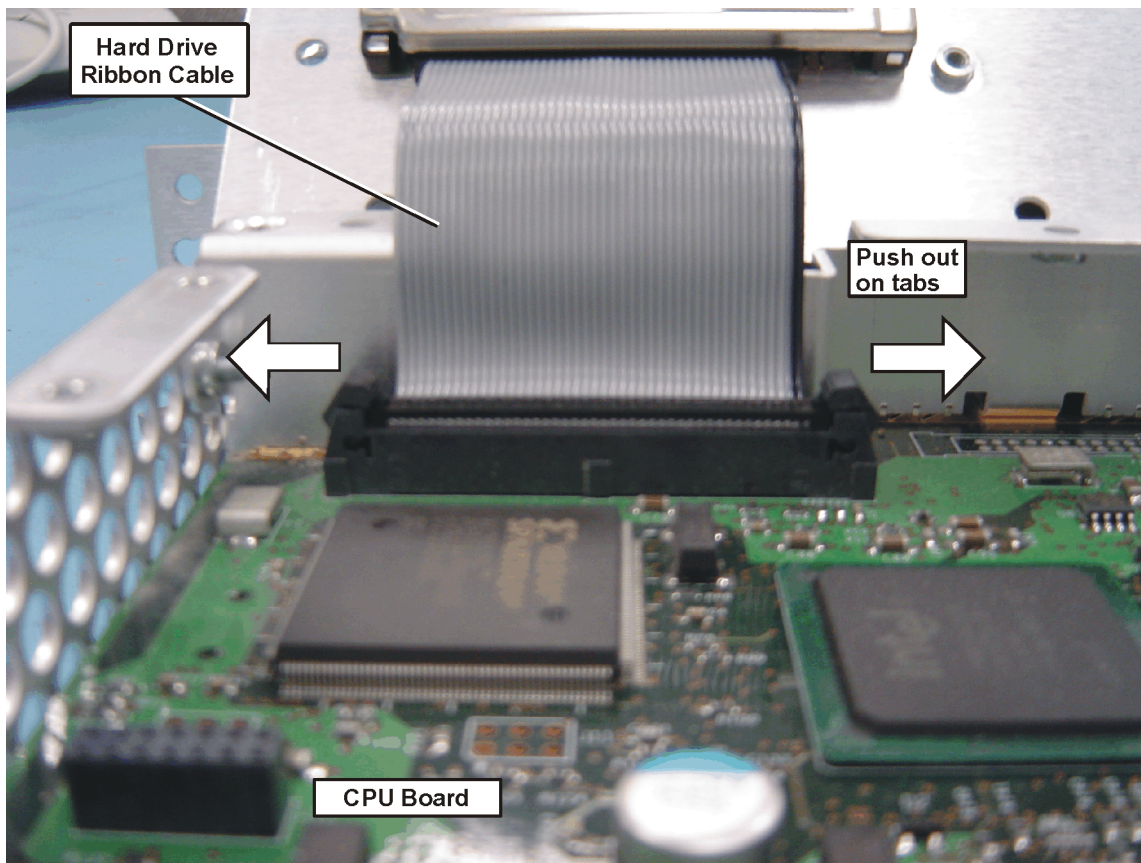
**Figure 2 CPU Top Shield Screws**



cpu\_top screws

3. Carefully lift up the CPU top shield and unlock the Hard Drive ribbon cable from the CPU Board by pressing down and out on the two locking tabs located on the sides of the connector as shown in [Figure 3](#).

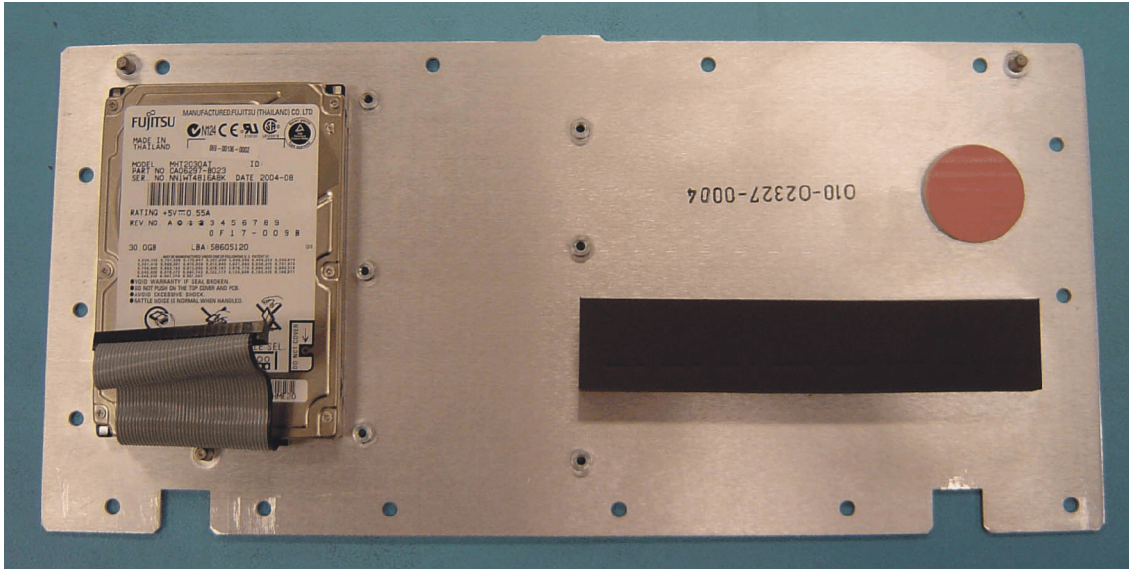
**Figure 3**      **Hard Drive Ribbon Cable**



## Upgrade to 2 GB SDRAM Kit

4. Set aside Top Shield/Hard Drive/Ribbon Cable assembly.

**Figure 4** Top Shield/Hard Drive Assembly



5. Locate the 1 GB SDRAM board assembly from the kit. See [Figure 5](#).

**Figure 5** 1 GB SDRAM Board



6. Before installing the SDRAM board, use a high pressure non-CO2 air duster to clean off the CPU board and the vacant connector in case there is dried loctite from the 15 screws that were removed earlier.
7. Carefully install the 1 GB SDRAM board at a slight angle into the vacant connector on the CPU board. See [Figure 6](#).

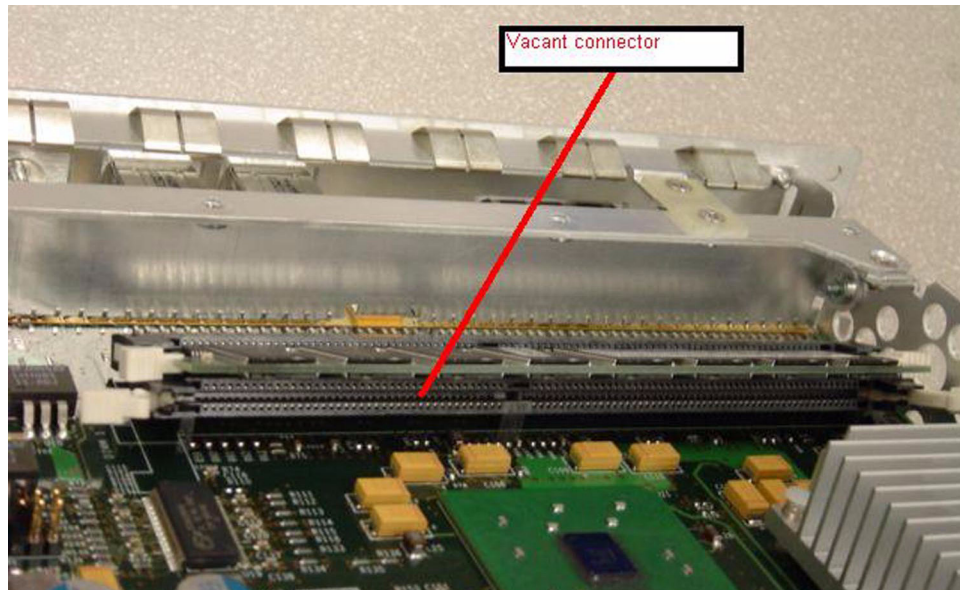
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### NOTE

A distinct snap from the locking tabs should be heard when the 1 GB SDRAM board is seated correctly into the connector.

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**Figure 6**      **Insert the 1 GB SDRAM Board**

8. Connect the Hard Drive ribbon cable from the Top Shield/Hard Drive/Ribbon Cable assembly from [step 4](#) to the CPU. When the ribbon cable is fully seated the two locking tabs will grip the sides of the ribbon cable connector.
9. Install the Top Shield/Hard Drive/Ribbon Cable assembly to the CPU using 15 pre-coated self-locking screws ([0515-5074](#)) from the kit. See [Figure 2](#). Torque screws to 9 in-lbs.
10. See [Figure 1](#). Replace the CPU assembly in the instrument with 6 screws. Torque to 9 in-lbs.

## **Functional Check:**

1. Turn the instrument on.
2. Verify that Operating System can be found and that the Agilent Measurement Application starts up.
3. Verify the increased RAM size to 2 GB by going to the Start menu, right click on “My Computer” and select “Properties”. A window will pop up showing the computer properties.

## **Utilities, Adjustments, and Performance Verification Tests**

### **Utilities Required**

None

### **Adjustments Required**

None

### **Performance Testing Recommended**

Displayed Average Noise Level  
Residual Responses

End of installation.

For assistance, contact your nearest Agilent Technologies Sales and Service Office. To find your local Agilent office access the following URL, or if in the United States, call the following telephone number:

<http://www.agilent.com/find/assist>

1-800-829-4444 (8 am - 8 pm ET, Monday - Friday)