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Procedure to Replace SRAM with Compact Flash

Difficulty Level: Low

Estimated Time to Execute: 30 Minutes

Revision History

Issue	Date	Reason
001	12/8/10	Initial Issue

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1.0 Description

This document describes the procedure to replace SRAMs with Compact Flash on a SYSCON+ in a working analyzer.


Note: Compact Flash is programmed with the latest software version which requires that the SYSCON be equipped with software version 4.1 or later. Workstations must either be upgraded to the latest software version or the Compact Flash downgraded to match the user's current version.

For Maxum and NAU units, use the parts kit A5E03391443001 and follow the procedure in Section 2. For Advance Plus, use parts kit A5E03391443002 and see Section 3 for instructions.

2.0 Maxum/NAU Procedure

A parts kit is required for this procedure. The kit contains the following items:

Description	Quantity
Compact Flash, Programmed	1
Cable, IDE, Hard Drive Memory, 19 inch	1
PCBA, I2c-ISA I/F BD, Compact Flash I/F Only	1
Screw, M4 x 8 Socket Head Cap, SST	1
PCBA, SYSCON, PSRAM Module 16 Megabytes	1

Step	Procedure
	Warning: Observe all necessary plant safety procedures during the execution of this procedure. This procedure must be executed with the approval of plant safety personnel and/or the local authority having jurisdiction.
1.	From the System Manager, backup the database of the Advance Plus analyzer that is to be modified (refer to the Maxum Maintenance Manual for instructions). Retain the file for later use in reloading the analyzer.
	Caution: The database that is in the analyzer will be lost during the upgrade. Do not continue without a saved database.
2.	Power down the analyzer.

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Step	Procedure
3.	Remove the topmost SYSCON assembly fastening screws that secure the assembly to the electronic enclosure mounting bracket.
4.	Pull the SYSCON assembly forward so it rests on the rubber mounting foot.
	The connector locations on the SYSCON for steps 5 – 9 are shown in Figure 1. For the finished assembly, refer to Figure 2.
5.	Remove the SRAM assembly.
6.	Plug the Compact Flash PCBA into Slot 5.
7.	Plug the Hard Drive Memory cable into the SYSCON and into the Flash PCBA.
8.	Plug the PSRAM PCBA into the SYSCON.
9.	Install the Compact Flash Card on the Compact Flash PCBA.
10.	Install the M4 screw to secure the Compact Flash PCBA as shown in Figure 2.
11.	Replace the SYSCON assembly and the assembly fastening screws.
12.	Power up the analyzer and restore using the database saved in step 1 (refer to the Maxum Maintenance Manual for instructions). Verify proper operation.

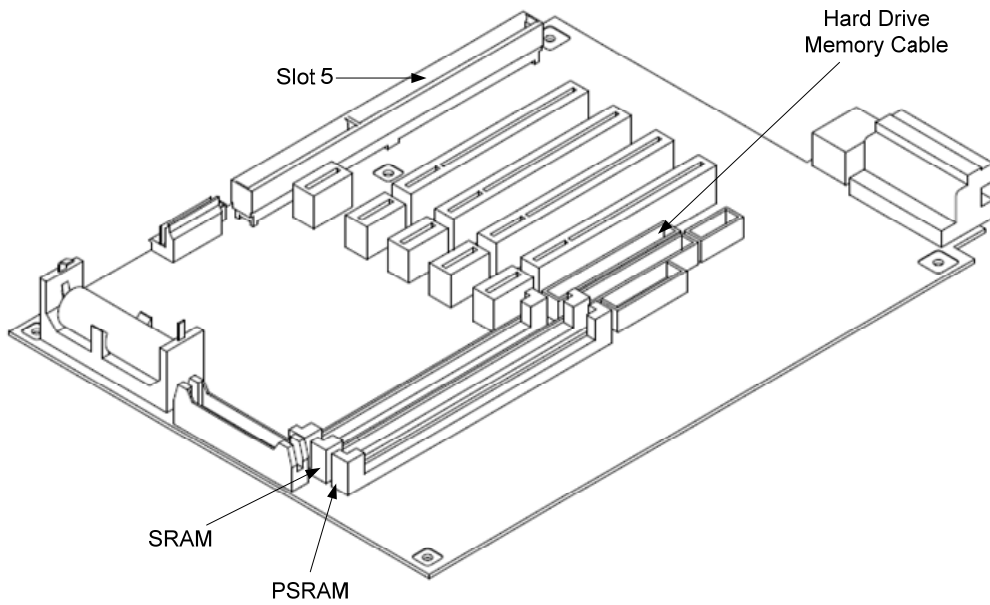


Figure 1: SYSCON Connector Locations

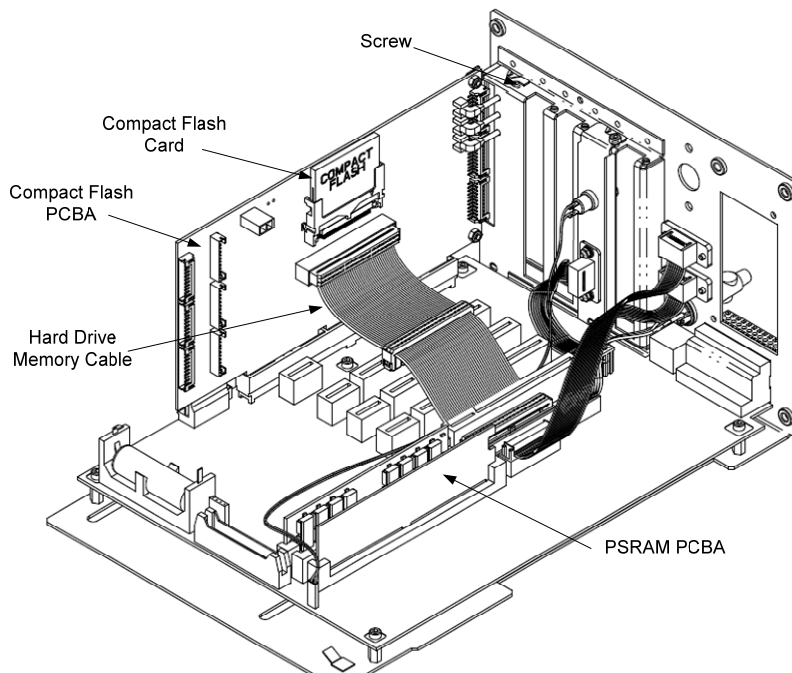



Figure 2: SYSCON with Compact Flash (Maxum/NAU)

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3.0 Advance Plus Procedure

A parts kit is required for this procedure. The kit contains the following items:

Description	Quantity
Compact Flash, Programmed	1
Cable, IDE, Hard Drive Memory, 19 inch	1
PCBA, Advance Plus Compact Flash Adapter	1
PCBA, SYSCON, PSRAM Module 16 Megabytes	1

Step	Procedure
	Warning: Observe all necessary plant safety procedures during the execution of this procedure. This procedure must be executed with the approval of plant safety personnel and/or the local authority having jurisdiction.
1.	From the System Manager, backup the database of the Advance Plus analyzer that is to be modified (refer to the Maxum Maintenance Manual for instructions). Retain the file for later use in reloading the analyzer.
	Caution: The database that is in the analyzer will be lost during the upgrade. Do not continue without a saved database.
2.	Power down the analyzer.
3.	Remove the two fastening screws that secure the electronics shield to the analyzer door.
	The connector locations on the SYSCON for steps 4 – 8 are shown in Figure 1. For the finished assembly, refer to Figure 3.
4.	Remove the SRAM assembly.
5.	Plug the Compact Flash Adapter PCBA into Slot 5.
6.	Plug the Hard Drive Memory cable into the SYSCON and into the Flash Adapter PCBA.
7.	Plug the PSRAM PCBA into the SYSCON.

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Step	Procedure
8.	Install the Compact Flash Card on the Flash Adapter PCBA.
9.	Replace the electronics shield and the assembly fastening screws.
10.	Power up the analyzer and restore using the database saved in step 1 (refer to the Maxum Maintenance Manual for instructions). Verify proper operation.

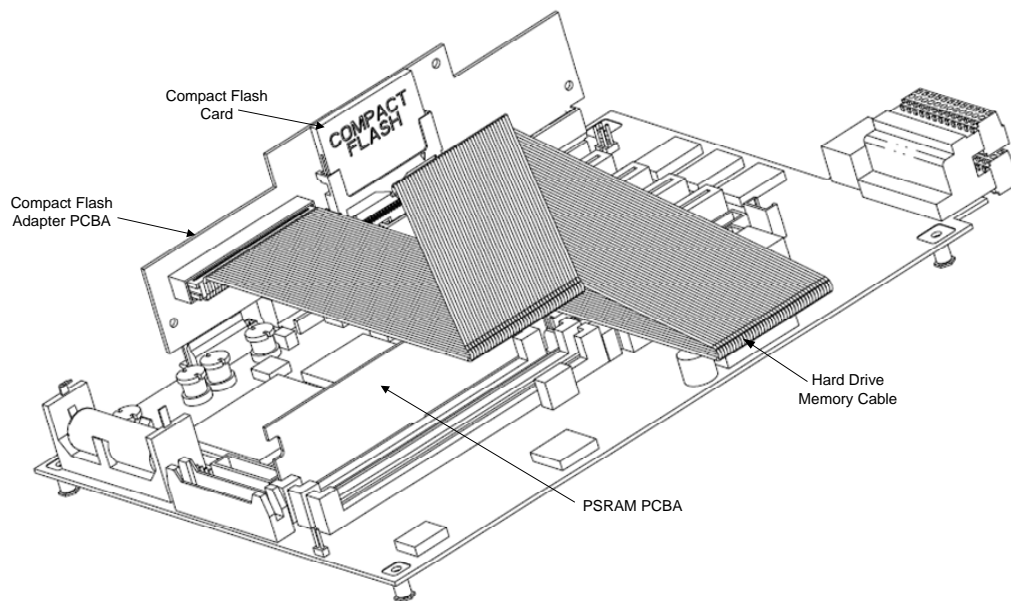


Figure 3. SYSCON with Compact Flash (Advance Plus only)