



PRODUCT SERVICE ADVISORY

1794-ASB, FLEX I/O Remote I/O Adapter Module, Series E

Ref: ACIG 2004-04-002

Date: April 2004

Dear Rockwell Automation Customer,

The purpose of this Product Service Advisory is to inform you of a functional issue that exists with:

- 1794-ASB, FLEX I/O Remote I/O Adapter Module, Series E

This Advisory explains the functional issue and the steps being taken to rectify the situation.

- Problem Description -

With the 1794-ASB, Series E, hereafter referred to as 1794-ASB, the following functional issue exists:

Functional Issue – A backward compatibility issue exists with the dip switch setting.

Our procedures require that the Series designator of the catalog number is modified when there is a change to fit, form or function. The Series E designator was assigned to the 1794-ASB when it was made compatible with 32-point FLEX I/O modules. In order to accommodate these modules, the redundant switch used for 230Kbaud operation was redefined for Autobaud/32-point mode. Refer to the table below for switch definitions for current and prior series 1794-ASB adapters.

Switch 2 Position 3	Switch 2 Position 4	Function Prior to Series E	Function in Series E
ON	ON	57.6kbaud	57.6kbaud
ON	OFF	115.2kbaud	115.2kbaud
OFF	ON	230.4kbaud	230.4kbaud
OFF	OFF	230.4kbaud	Autobaud/32-point mode

Implications of undesired selection of “Autobaud/32-point” mode selection with Series E 1794-ASB when replacing previous Series 1794-ASB

1. I/O image bits will be mapped. This is undesirable and could affect control operations. Do NOT run the system. If your rack is configured for the standard 16-point mode and you attempt to operate in 32-point mode, input data will be mapped to incorrect input image bits and output data image bits will be sent to the wrong output modules.
2. The 1794-ASB may or may not indicate a rack fault, depending on whether an I/O rack overlap condition occurs, and the order in which adapters are powered up on the remote I/O network.

IN ANY EVENT: Do not run the system with switch 2, positions 3 and 4 both in the OFF position unless you have that specific FLEX I/O rail configured for 32-point modules.

If you have a Series C or D 1794-ASB adapter that had switch 2, positions 3 and 4 in the OFF position, and are replacing it with a Series E 1794-ASB, then:

- Set switch 2, position 3 to OFF, and position 4 to ON

This selection will allow the Series E 1794-ASB to operate at 230kbaud in the standard 16-point mode.

Note: If the Series E 1794-ASB will at some point be operated in 32-point mode, the rack starting group must be set at zero, and depending on the addressing mode, there will be module placement restrictions.

For more information, refer to the Remote I/O Adapter User Manual, publication 1794-UM009D-EN-P.

- Product Identification -

Product **affected** by this Product Service Advisory includes:

- 1794-ASB, Remote I/O Adapter, Series E, when used as a replacement for earlier Series 1794-ASB Remote I/O Adapters.

- Problem Correction -

Education and awareness of end users regarding the meaning of a Series change, and specifically about the proper dip switch settings for 1794-ASB Series E, especially when used to replace previous Series 1794-ASB Adapters at existing installations is important. Please refer users to the resources listed below.

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RESOURCES: Dip switch setting information is included in the Installation Instructions (publication 1794-IN098B-EN-P) and the User Manual (publication 1794-UM009D-EN-P). In addition, a label has been added to the door covering the dip switches which says: “Note SW2 Pos #-4 New Definition....” A document (Document ID No. G58255798) exists on the Knowledgebase on our website that summarizes the 1794-ASB Series E set-up (www.ab.com> support> my support> Knowledgebase).

-Requested Customer Action-

Each notified customer should take the following actions:

- Confirm that you have the affected products.
- Use extreme caution when changing 1794-ASB adapters. Make sure the personnel changing adapters are aware of the difference in the dip switch settings, and take the necessary precautions to prevent incorrect dip switch settings.

If you require any further technical assistance, contact Rockwell Automation Technical Support (440-646-3223 or RACleAskTheExpert@ra.rockwell.com) or your local Rockwell Automation Sales and Support office.

We require and appreciate your immediate cooperation in this matter. If you have any questions, please contact us.

Sincerely,

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