

# ***IS200BPPB PROGRAMMING PROCEDURE***

## ***Revision History***

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<b>Version</b>	<b>DATE</b>	<b>BY</b>	<b>DESCRIPTION</b>
V001	2006-11-20	JMN	Update BPPB firmware from V01.01.04C to V01.02.01C. Add boilerplate.
V002	2007-01-11	JMN	Update BPPB firmware from V01.02.01C to V01.02.02C. This is required for BPPB version KD and greater.
V003	2009-12-08	RKD	Modified for generic use in Louisville Repair Facility.

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## **Programming Procedure**

1. This procedure starts with a BPPB card and reprograms it with new Boot, Base and Runtime firmware (if required) for use on an upper level assembly such as an IS215AEPA or AEPC.
2. On the programming station PC, start the “BPPB Downloader” program.
3. In the “BPPB Downloader” program:
  - Select Product = **(AEPA, AEPC, BPPBM02, or I/O Pack)**
  - Select Version = i.e. **V03.02.06C (use the highest revision listed unless for a special load)**
  - Set IP Address to the following:
    - a. For AEPA – 192.168.0.23
    - b. For AEPC – 192.168.4.1
    - c. For BPPBM02 –
    - d. For WECA -
4. Make the following connections to the BPPB card under test:
  - Serial cable from PC COM1 to BPPB–J10 (use IS200BPDBH1BPR1 interface card or shop jumper card)
  - Crossover Ethernet cable from PC 2nd NIC to BPPB–J4 or connect through HUB
  - 24 VDC power supply to BPPB–P3
5. In the “BPPB Downloader” program:
  - Apply power to BPPB and Verify boot-up text scrolls in the dialog window. Wait for the text to finish scrolling in the dialog window.
  - Click the **Login** button. Wait for the command to finish.
  - Click the **Set IP Address** button. Wait for the command to finish.
  - Click the **Ping** button. Verify correct response in the DOS window:  
   Example: Reply from 192.168.4.1: bytes=32 time<10ms TTL=255
  - Click the **Download Boot, Base** button. Wait for **Download Complete** message.
  - Click the **Install BOOT** button. Wait for **Boot Install Complete** message.
  - Click the **Install BASE** button. Wait for **Base Install Complete** message.
  - Click the **Shutdown** button.
  - Verify boot-up text scrolls in the dialog window. Wait for the text to finish scrolling in the dialog window.
  - Click the **Ping** button. Verify correct response in the DOS window:  
   Example: Reply from 192.168.4.1: bytes=32 time<10ms TTL=255
6. Remove power, serial and Ethernet connections from the BPPB.
7. Done! Repeat steps 3–7 for additional BPPB cards.

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### **Supplementary Information**

The following parts are required for the programming station PC:

- A 2nd NIC card, set to IP address 192.168.3.111 / 255.255.255.0
- Unused COM port #1

The "BPPB Downloader" program must be installed on the programming station PC. The installation can be accessed from the following server location:

- <\\pdevnt\Public\BPPB Downloader>
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The "Toolbox ST" program must be installed on the programming station PC. Installation of the program will put the proper TGZ files in the proper directories for downloading.

The following parts are required for interfacing to the BPPB card:

- 24vdc power supply
- Serial interface card, part # IS200BPDBH1BPR1
- Straight-thru serial cable (9-pin d-shell)
- Crossover Ethernet cable