

Technical Support Bulletin: S3-FREPRM-02

Field Replacement of the BVS-S3 EPROM

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This procedure outlines the steps required to replace the EPROM in the BVS-S3.

1. Ensure the customer has downloaded the results from the latest autoread, and all power outage data. If not, download the data into the laptop. If no laptop is available, turn on the printer, and print the data on a tape.
2. Turn on the printer, enter Calibration Mode (BBADD), and press the star (*) key. This will print a report showing the status of the Short Hit Alarm Function, the value of the Power Out Interval, all Impedance Multipliers, the Temperature Scale, and whether the BVS is set for Initial or Average Impedance Mode. This report will be used in Step 13 below.
3. Press # to return to the Normal Mode. Record the following by interrogating the BVS through the keypad (or Keypad Mode in the BVM software):

- C = Location Code _____
- D = Dial Out Phone Number _____
- 0 = Current Date and Time* _____
- 1 = Next Auto Read Date and Time _____
- 2 = Auto Read Interval _____
- 3 = Battery Upper Voltage Limit _____
- 4 = Battery Lower Voltage Limit _____
- 6 = Unit Upper Voltage Limit _____
- 7 = Unit Lower Voltage Limit _____
- 8 = Unit Maximum % Impedance Limit _____

* Some customers purposefully offset their BVS clock. Take note of any *hours* offset, and preserve it when you enter the Current Date and Time later in this procedure.

4. Unplug load current leads from Load Plate connectors.
5. Unplug the power input connector from the chassis. Set the NiCad switch to OFF, and the Run/Standby switch to STANDBY.
6. Remove the chassis cover.
7. Unplug the small NiCad battery, and short both pins on the PC board header together to discharge the RAM backup supply.
8. Remove the old EPROM.
9. Carefully check the new EPROM for bent pins, and correct as needed. **Orient the new EPROM so that the notch matches the notch in the socket.** Insert the new EPROM.
10. Plug in the small NiCad battery, and the plug in the input power connector. If you do not hear the BVS's boot tones immediately, unplug the input power connector, and plug it back in again within two seconds. Repeat until the BVS boots successfully. After about a minute the display should read **3 : 7**.
11. Once the **3 : 7** display appears (or a minute has passed since the boot tones), set the NiCad switch to ON, and the Run/Standby switch to RUN.
12. Re-install the chassis cover.
13. Enter the Current Year.
 - a) Go into the Diagnostic Mode (B B A D C).
 - b) Scroll up to the current year using the A and B keys. The year is 2000 + the displayed number.
 - c) Press 0 to set the year. If the printer is turned on, it will confirm the setting.
 - d) Press # to return to Normal Mode.

14. Enter the Current Date and Time.
 - a) Go into the Unlocked Mode (B + *password*)
 - b) Press 0 to set the date and time
 - c) Enter the date (MM/DD) followed by the time (HH:MM) in a 24 hour format.
 - d) Press # to return to Normal Mode.
15. Press the star (*) key to begin the learning process. The system voltage should be displayed if the unit has learned the configuration correctly.
16. Re-enter the remaining values recorded in Step 3, except the Next Auto Read Date and Time.
17. Using the values from the report printed in Step 2, reset the Temperature Scale, the Short Hit Alarm Function, and the Power Out Interval. Also, reset the Impedance Multipliers if they are other than 100%.
18. Replace the load current lead connectors.
19. Program the Next Auto Read Date and Time for about five minutes in the future. When the BVS has completed this Auto Read, download the data or print a tape if no laptop is available.
20. Reset the Next Auto Read Date and Time to the values recorded in Step 3.
21. If the report from Step 2 indicates the Initial Impedance Mode, enter the Unlocked Mode and press 9.

Please call **BTECH Inc.** Technical Support if any questions arise.

