Soldier Portable Charger (SPC)
BTC-70801

Software Update Instructions
Version SPC 6.11.02 Program N
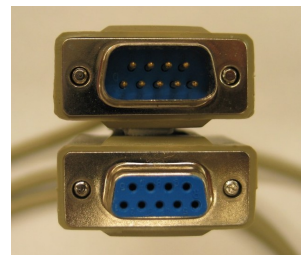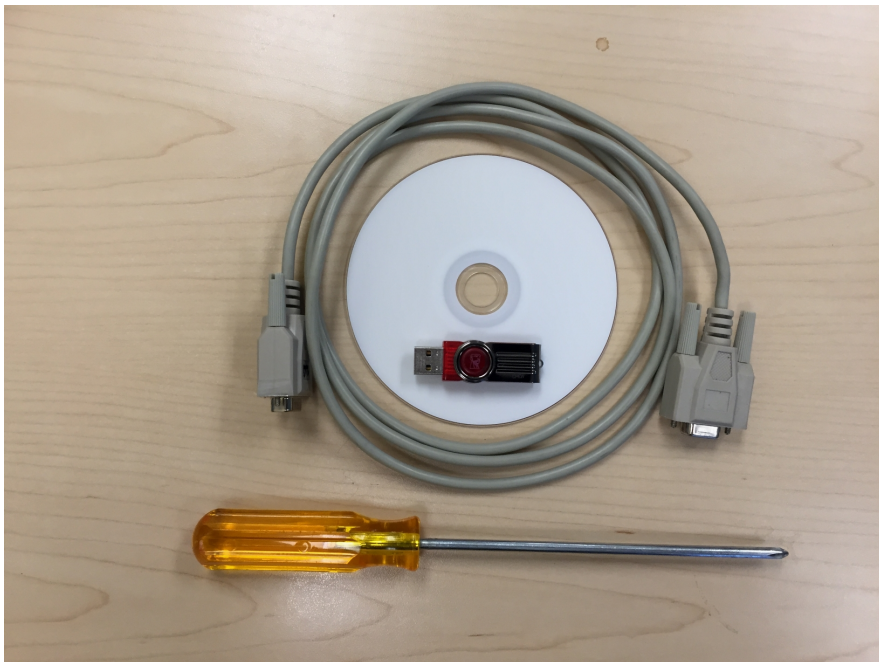
Purpose:

This is a software upgrade for the Soldier Portable Charger (SPC) BTC-70801. This is a full upgrade, and will replace the existing software on the charger. All previous updates, if any, will be overwritten. This update will add support for additional batteries and adapters to the charger. The Upgrade program does not install any software or drivers to the Windows PC.

Required Items:

1. A floppy disk containing the Software Update – BTC-70801 V6_11_02 (Rev N).exe. The update may also be on a CD or memory stick. If it was downloaded it will be found on the PC's hard drive.
2. A Personal Computer (PC) running Windows XP or Newer with a serial Port. If the PC does not have an RS-232 serial port, a USB to serial adapter may be used.
3. A Serial Cable, DB9 Male to DB9 Female with straight through connections (not a Null Cable).
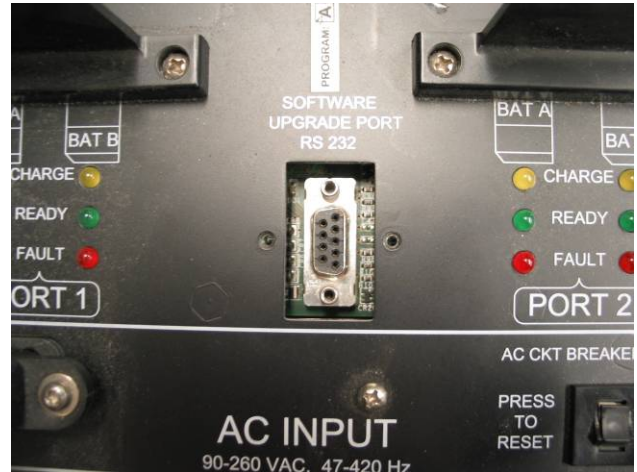4. A #1 Phillips Screwdriver.

Serial Cable

USB to Serial Adapter

To Reprogram the SPC Follow these Steps:

1. With the Phillips Screwdriver, remove the SOFTWARE UPGRADE PORT RS232 cover plate on the SPC. The cover plate is located on the control panel between PORT 1 and PORT 2 under the AC Cord Velcro strap. (Note: the cover plate is fastened with two 4x40-3/8" Phillips-head screws)
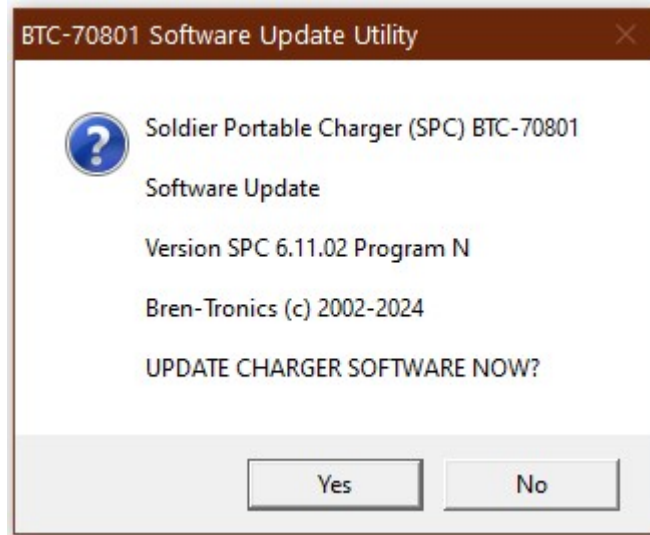

2. Prepare the charger for the serial data transfer:

   a. Connect the SPC SOFTWARE UPGRADE PORT RS232 to the Windows-compatible PC communication port marked Com1 using the Serial Cable.
   b. Remove all batteries from the charger
   c. Connect the SPC to a suitable AC power source
   d. Turn the SPC AC power switch to the ON position

Typical Connection for Software Update

3. Insert the floppy disk, CD or memory stick into the computer.

4. On the PC go to "My Computer" and Double Click on Drive or folder holding the file "BTC-70801 V6_11_02 (Rev N).exe".

5. Double Click on the "BTC-70801 V6_11_02 (Rev N).exe" Icon.

6. You will be asked **"Update Charger Software Now?" Click <u>Yes</u> to Proceed**.

> **BTC-70801 Software Update Utility**   ✕
>
> ❓ Soldier Portable Charger (SPC) BTC-70801
>
> Software Update
>
> Version SPC 6.11.02 Program N
>
> Bren-Tronics (c) 2002-2024
>
> UPDATE CHARGER SOFTWARE NOW?
>
> [Yes]   [No]

7. The Update utility will scan the PC for free COM ports and lists them. It will prompt you to enter your COM port number. Key in the port number you are using (should be one in the list) follow by Enter..

8. Verify the charger responds by reporting its current software version.

   ```
   Current Version:
     SPC US compiled on xxx xx 20xx at xx:xx:xx Vx.xx Program –
   ```

   (Note: The version message may not be displayed. Continue anyway, if you want to program the charger)

9. If you desire to proceed and update the software, **<u>Press the letter "P"</u>**.

10. If you changed your mind and do not wish to proceed, press any other key to cancel.

11. All of the LEDs on the charger will light as the reprogramming begins. As the software update process proceeds, the messages on the screen will display the progress of the reprogramming.

    (Note: if no Message is displayed or a "Timeout" message appears, check the cable and connections. Turn the SPC Power switch OFF, wait 10 seconds, and then turn the SPC Power switch ON. Repeat the programming.)

12. When the software update is complete (about 5 minutes) the SPC will report

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Reprogramming With BTC-70801 V6_11_02 (Rev N).hex

Reprogramming Completed OK

System will now start new program.

Total Elapsed Time 00:0X:XX

New Version:
        SPC US compiled on Mar 25 2024 at 10:06:53 V6.11.02 PROGRAM N
Press any key to continue.
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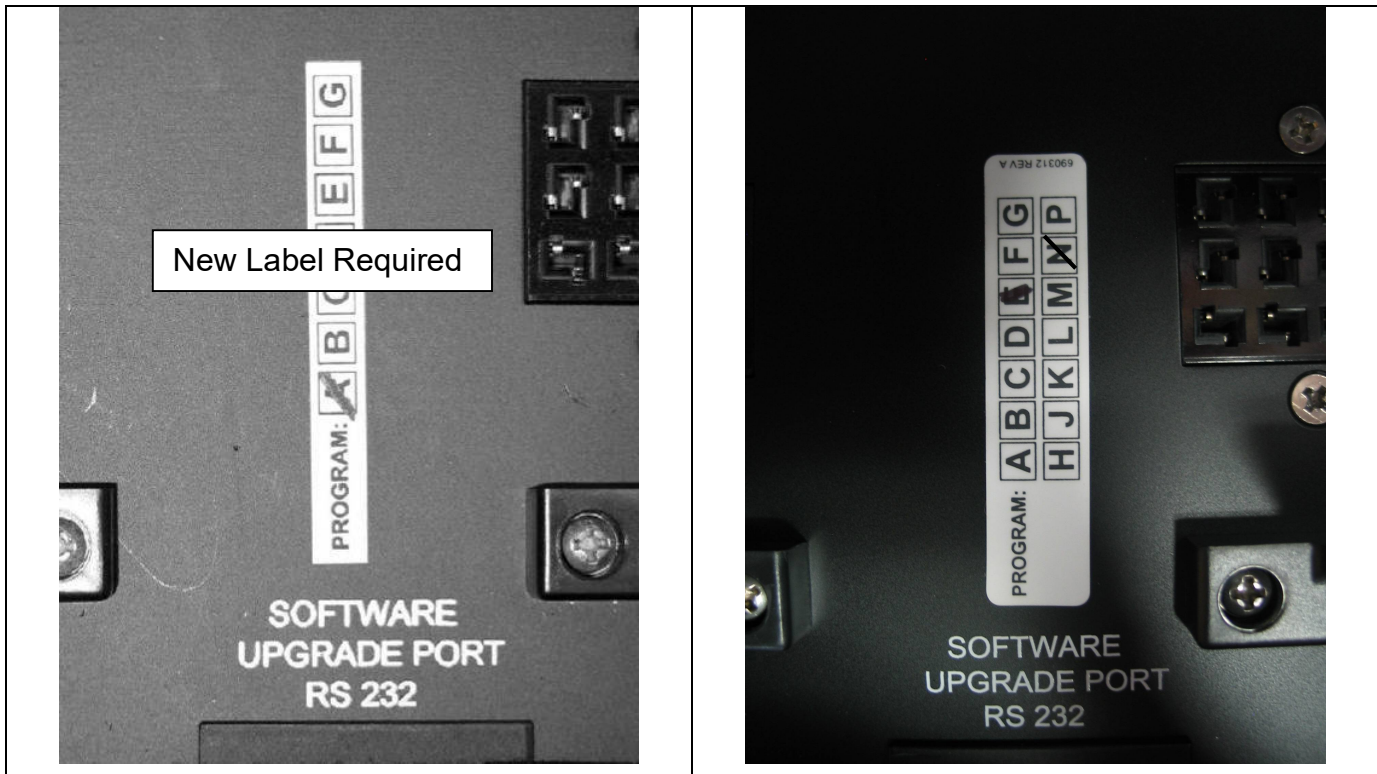
13. Verify there are no error messages.

14. Verify the Version is: **V6.11.02 PROGRAM N**

15. Press any key to continue.

16. Turn the SPC Power switch OFF, wait 10 seconds, and then turn SPC Power switch ON. The charger should show the normal startup LED blinking. If all of the LEDs are lit, repeat the reprogramming procedure.

17. If upgrading from an earlier revision, and you want to make this update permanent, mark the new software revision on the Program Mabel with a bold line through the letter "M" as shown below:

18. Remove the Serial Cable from the SPC.

19. Replace the cover plate over the UPGRADE PORT RS232

20. The Software Update is Now Completed.