

I. Purpose: The purpose of this document is to establish a written procedure for programming the SS1/2000 with terminal emulator software.

NOTE: Do not use this procedure if you have SSLOADER.

II. Qualifications: Programming of the siren controllers must be performed by a properly trained Test Technician.

III. Required: computer, must have PC plus(Procomm) or compatible terminal program.
 3.5" Disk with the required bin and/or dat files to be programmed into the SS1/2000
 RS-232/DB-9 serial cable and/with null modem (gender changer may or may not be needed)

IV. Installation of 3.5" disk to directory on the computer.

(If you have already installed or copied the required files to your computer, skip to programming section)

NOTE: [] = THESE ARE BRACKETS THAT DESIGNATE THE INFORMATION TO BE ENTERED OR THE BUTTON TO PRESS. PLEASE DO NOT TYPE THE BRACKETS, WHEN ENTERING THE INFORMATION.

- A. Turn on computer.
- B. If windows starts up automatically you must get out of windows and go to the dos prompt.
 - 1. If you have windows 3.1
 - a. Using mouse click on [File] in upper left corner of "Program manager" screen.
 - b. Using mouse click on [Exit windows].
 - c. Using mouse click on [OK].
 - 2. If you have Windows 95
 - a. Using mouse click on [Start] in lower left corner of "Program manager" screen.
 - b. Using mouse click on [Shut down].
 - c. Using mouse click on [Restart the computer in MS DOS mode].
 - d. Using mouse click on [Yes].
- C. Type: (on computer)
 - 1. [C:]
- D. Press:
 - 1. [enter]
- E. Type: (on computer)
 - 1. [CD\]
- F. Press:
 - 1. [enter]
- G. Type: (on computer)
 - 1. [MD SS1000P]
 - a. (Note: There is a space between MD and SS1000P)
- H. Press:
 - 1. [enter]
- I. Type: (on computer)
 - 1. [CD\SS1000P]
 - a. you should see on your computer screen as follows:
C:\SS1000P>
- J. Put "3.5" disk" into the "A: drive" of the computer.
- K. Type: (on computer)
 - 1. [COPY A:*. * C:]
 - a. (Note: there is a space between COPY and A:)
 - b. (Note: there is a space between * and C:)
- L. Congratulations! you have successfully installed the 3.5" disk under the directory of C:\SS1000P>

V. Bin file programming procedure: (for dat file see below)

Note: Write down the file names and location on paper before starting this section.

- A. Ensure the SS1/2000 power is disconnected.
- B. Connect the following between the SS1/2000 (RS-232 port) and the programming Computer (serial port A/1).
 - 1. Null modem adapter.

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				DRAWN BY:	GSA	CHKD. BY:	JN	SHEET
A	REL TO PROCEDURE	5/14/03	GSA	DATE:	5/14/03	DATE:	5/14/03	1 OF 3
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2. Serial cable (DB9 TO DB9, also known as a serial or RS-232 cable).
3. Gender changer (if required).
- C. Make sure you are in the directory where Pcplus(Procomm) is located.
 1. For windows version, use mouse and start Pcplus(Procomm) and enter terminal mode.(go to step F)
- D. For Dos version of Pcplus(Procomm),Type: (on computer)
 1. [pcplus]
- E. For Dos version of Pcplus(Procomm), Press:
 1. [enter]
 2. [enter]
- F. Plug in SS1/2000. (The following has a three minute total time constraints, please read first)
 1. Press [enter] on the computer within 5 seconds of plugging in SS1/2000
 2. Should see begin "xmodem download" appear on computer. (If OK, go to step G.)
 - a. If not, ensure Pcplus(Procomm) is set up with the following configuration.
 1. RS232(PORT A/1), 9600 baud,N, 8 to 1, Xmodem standard
 - b. If still not, disconnect power from SS1/2000 and reconnect power to SS1/2000 .
 - c. If this does not work, turn off computer and SS1/2000, then repeat procedure from the beginning.
 - d. If still not, call Federal Signal
- G. Press: (on computer)
 1. [page up]
 2. [x]
- I. Enter file name: (on computer)
 1. Example follows, but is dependent upon where you have the .bin file located.
 - a. [C:\SS1000P\SS5_6.bin] (3.5' disk installation put .dat file under directory C:\SS1000P)
- J. Press: (on computer)
 1. [enter]
- K. Wait for file transfer to complete. If bad block occur during transfer this procedure must be repeated.
- L. Press: (on the SS1/2000)
 1. [menu]
- M. Disconnect equipment or proceed to install dat file.

V. Dat file programming procedure: (for bin file see above)


Note: Write down the file names and location on paper before starting this section.

- A. Ensure the SS1/2000 power is disconnected.
- B. Connect the following between the SS1/2000 (RS-232 port) and the programming computer (serial port A/1).
 1. Null modem adapter.
 2. Serial cable (DB9 TO DB9, also known as a serial or RS-232 cable).
 3. Gender changer (if required).
- C. Make sure you are in the directory where Pcplus(Procomm) is located.
 1. For windows version, use mouse and start Pcplus(Procomm) and enter terminal mode.(go to step F)
- D. For Dos version of Pcplus(Procomm),Type: (on computer)
 1. [pcplus]
- E. For Dos version of Pcplus(Procomm), Press:
 1. [enter]
 2. [enter]
- F. Plug in SS1/2000.
 1. Should see main menu appear on computer. (If OK, go to step G.)
 - a. If not, ensure SS1/2000 is in "standard mode" .
 1. Should see a "S" in the lower right hand corner of the SS1/2000.
 - a. If not, do as follows:
 1. Press: (on the SS1/2000), (repeat the below steps until "S" appears.)
 - a. [Shift]
 - b. [C]
 - b. If still not, ensure Pcplus(Procomm) is set up with the following configuration.
 1. RS232(PORT A/1), 9600 baud,N, 8 to 1, Xmodem standard
 - c. If still not, disconnect power from SS1/2000 and reconnect power to SS1/2000 .

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- d. If this does not work, turn off computer and SS1/2000, then repeat procedure from the beginning.
- e. If still not, call Federal Signal
- G. Press: (on computer) (The following has a three minute total time constraints, please read first)
 - 1. [5] (extended modes)
 - 2. [5] (download)
- H. Press: (on computer)
 - 1. [shift]
 - 2. [s]
 - 3. [page up]
 - 4. [x]
- I. Enter file name: (on computer)
 - 1. Example follows, but is dependent upon where you have the .dat file located.
 - a. [C:\SS1000P\AMARILLO.DAT] (3.5' disk installation put .dat file under directory C:\SS1000P)
- J. Press: (on computer)
 - 1. [enter]
- K. Wait for file transfer to complete.
- L. Press: (on the SS1/2000)
 - 1. [menu]
- M. Disconnect equipment.

NOTE: ([shift] then [send] may also be pressed on the SS1/2000)
(instead of [shift] then [s] on the computer.)

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