SIEMENS

QUICK REFERENCE GUIDE
DT INSTALLATION PROCEDURE A FOR GCP 4000 DISPLAY MODULE A80407-01 (AND EARLY -03) USING A COMPACT FLASH DEVICE

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Version B.1

The following procedure should be used when upgrading the Diagnostic Utility (DT) in a GCP 4000 Display Module, P/N 8000-80407-0001 and early versions of P/N 8000-80407-0003 (see note below).

NOTE

If the A80407-03 Display Module is labeled **DISPLAY II**, you must use **DT Installation Procedure B** (document No. SIG-QG-09-03) to install the DT software.

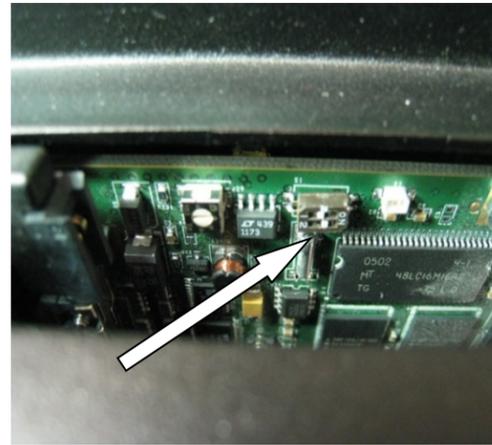**INSTALLING THE DT IN GCP 4000 DISPLAY MODULE A80407-01 OR EARLY A80407-03**

To perform this procedure you will need a pre-loaded Compact Flash device, Siemens part number Z224-9V244-A010, containing the latest DT software version that is compatible with the currently installed MCF. In addition to the preloaded Compact Flash device you will need a PCMCIA adapter module to install the Compact Flash device in the Display Module. This adapter module can be purchased from Siemens by ordering P/N Z714-02115-0000.
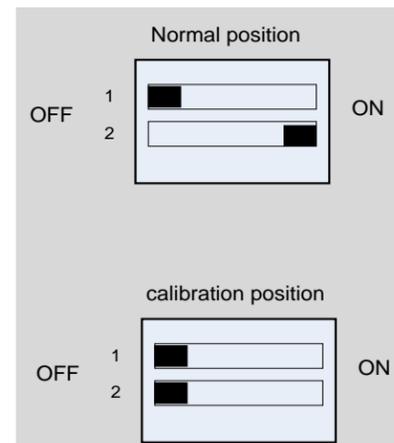
NOTE

Upgrading the DT Utility in the Display Module will NOT interfere with the safe operation of the highway crossing warning system.

1. Locate and remove the A80407 display module from the GCP 4000 chassis.

2. Locate the boot DIP switches on the top edge of the Display Module (accessible through the slot in the top of the Display Module case, figure #1). The Display Module boot DIP-switch normal positions are: switch 1= OFF, switch 2 = ON. For Phase 1 stylus calibration,

position both switches to the OFF position (see figure #2 below).

#1

#2

3. Insert the Siemens provided Compact Flash memory device into the PC card adapter. Then install the adapter in the A80407 Display Module through the slot in the top of the Display Module case (figure #3). Reinstall the Display Module in the GCP 4000 chassis as shown in figure #4 below. Apply power to the GCP 4000 if not already powered up.
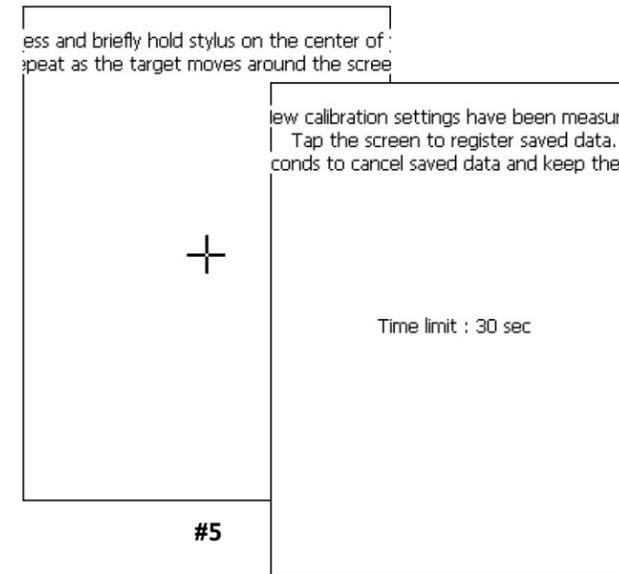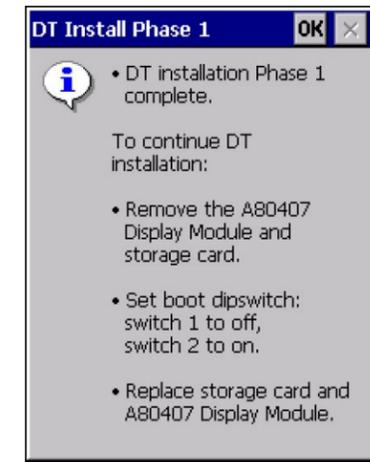

#3

#4

4. With the use of the stylus, calibrate the display by tapping the + sign as it appears on the display (figure #5). At the end of this calibration process a 30 second timer will run (figure #6). Tap the display one more time before this timer expires to save the new display module calibration settings.

#5

#6

5. The screen shown in figure #7 indicates the completion of Phase 1 and provides additional information in preparation for Phase 2. Remove the A80407 Display Module from the 4000 chassis and then remove the PC card adapter and Compact Flash. Set both Display Module DIP switches back to the normal position: switch **1 = OFF** and switch **2 = ON**. Reinstall the PC card adapter and Compact Flash in the A80407 Display Module. Reinstall the Display Module in the GCP 4000 chassis.
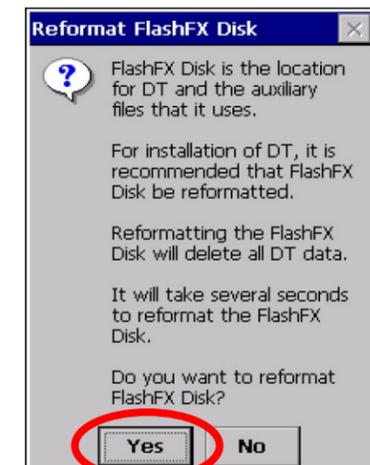

#7

#8

6. After reinstalling the A80407 module in the GCP 4000, the display will execute its boot cycle. After the completion of the boot up process the display will show a prompt asking if "you want to reformat the FlashFX Disk?". Select **Yes** (figure #9). When the WARNING appears select **OK** (figure #10).
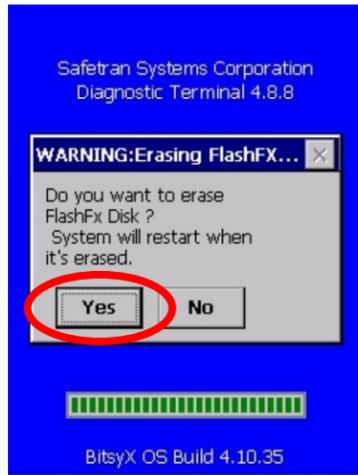

#9

NOTE

In the following figures the DT version number at the top of the screen and the OS Build number at the bottom will vary depending on the DT and OS software versions installed.

2   3   4

#10

7. After selecting **OK** the next screen (figure #11) will prompt one more time to erase the FlashFX Disk. Select **Yes**. At this point Phase 2 DT installation will begin. Ensure that the two option boxes are checked as shown in figure #12 below and then select **Next >.**

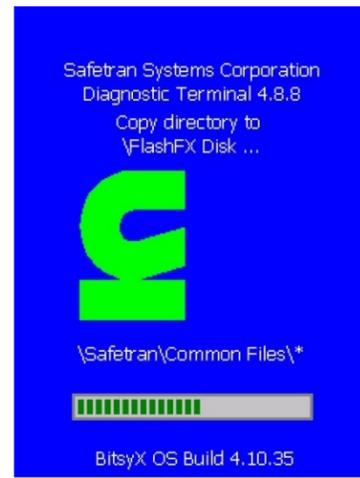**#11**

#12

8. The following display will ask you if you want to delete the support files, select **Yes** to start the process.
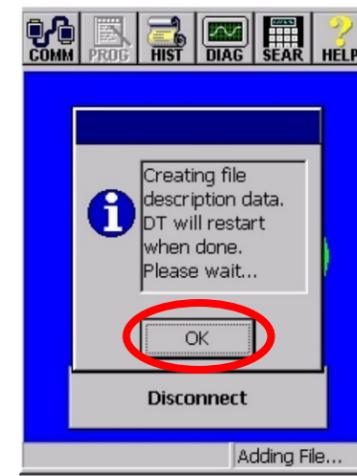
This upgrade may take up to 10 minutes to complete. Do not disturb the system during this process.

9. At the completion of this process, a screen message will indicate that the installation has been completed (see below). Remove the A80407 Display Module from the GCP chassis and then remove the PC card adapter and Compact Flash.

10. Reinstall the A80407 Display Module in the GCP 4000. After completion of the boot process the following message will appear: "Creating file description data. DT will restart when done" (see figure #13). Select **OK** to initiate the process.
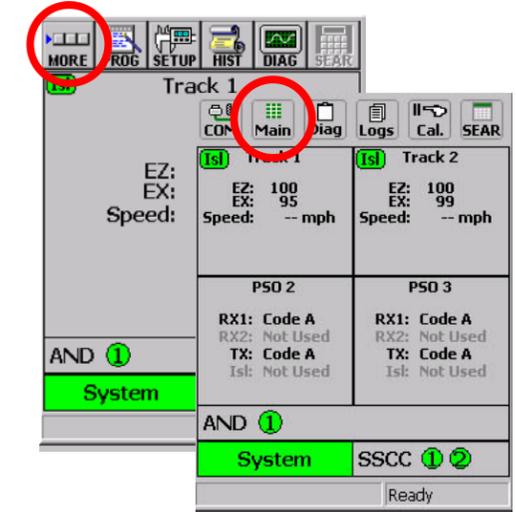

#13

11. The process will be followed by the screen shown in figure #14, and the display will again reboot. At the conclusion of this boot cycle the display will resume normal operation and will indicate the conditions of the GCP 4000 and highway crossing warning system.

#14

12. This concludes the DT software installation and upgrade. **NO ADDITIONAL TESTING IS REQUIRED**. For verification of the DT installation, select **MORE** (**MAIN** in DT 5.0.7 and later) on the Track status screen and then select **HELP** (**ABOUT** in DT 5.0.7 and later) on the subsequent screen to view the DT version. Verify that the display indicates the proper DT version (e.g., 5.0.7).

*Refer to *GCP 4000 Crossing System Maintainer's Handbook*, Document Number: SIG-00-04-02 Version B, dated March 2007 or to *4000 GCP Crossing System Field Manual*, Document Number SIG-00-08-10 Version B or later, for additional information regarding installation of DT software in a GCP 4000 Display Module