

Upgrade the firmware on a T8000 FACP

Before you start the upgrade on the new Tracker panels with the latest firmware for the MCC “mother board” and LCU “loop board”, the following equipment and PC software programmer and drivers are required

Program cable for USB	Part #TG-CBL-USB
Firmware Program	FireSpy Firmware Programmer Version 1.1.0.0 or newer
Panel Programmer	FireSpy Tracker PC Programmer Version 5.0.16.0 or newer
Drivers for USB Chip	FTDI USB Drivers 2.06.00
Operating System on PC, Windows XP or newer operating system with USB port	

Step 1.

Before you can start to upgrade the T8000’s firmware, first need to save the database from the system that you are going to be upgrading.

This is crucial, since the system will do a factory default and put all the devices and messages back to the default level. So all of the messages and groups you have created will be lost.

Step 2.

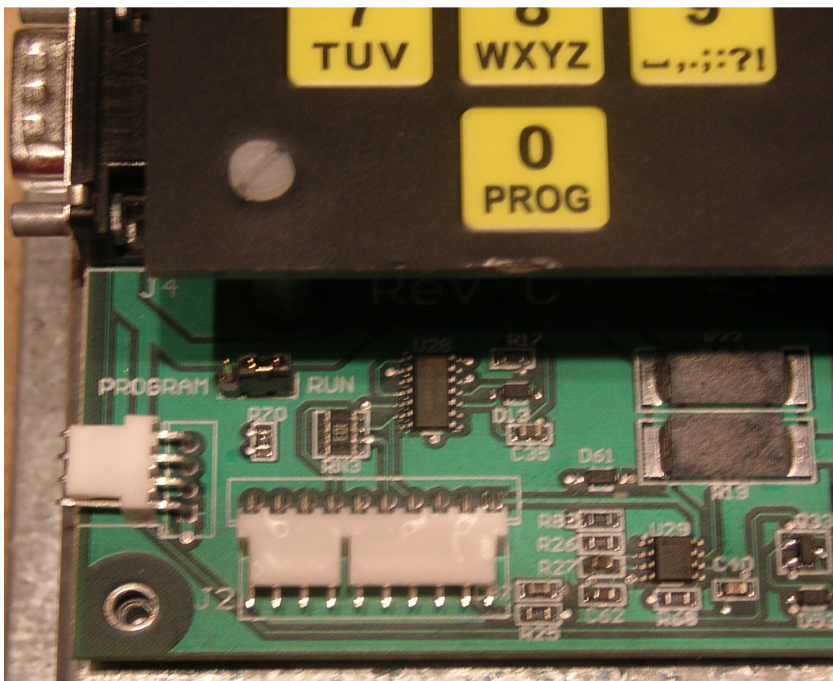
Create a new folder on your C: drive. Place the MCC and LCU firmware Hex files in this new folder.

Step 3.

On the T8000 MCC mother board, on the bottom left corner is **J5** jumper.

It has two selections “**Program** or **Run**”.

The Micro jumper will be in the **Run** mode for normal operation, remove it and place it in the **Program** mode. When in the Program mode, the panel will be ready to accept the new firmware file



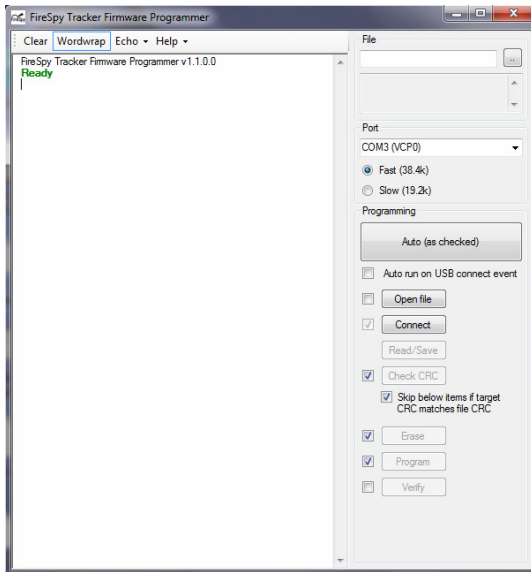
Step4.

Place the USB cable into the USB port on the MCC at P10 USB connection. The USB port is located on the left side of the MCC, about 2 inches up from the RS232 DB9 connector.

Activate the FireSpy Tracker Firmware Programmer, and it will open up like below. The large box on the left will come up with the following print inside, if it is connected.

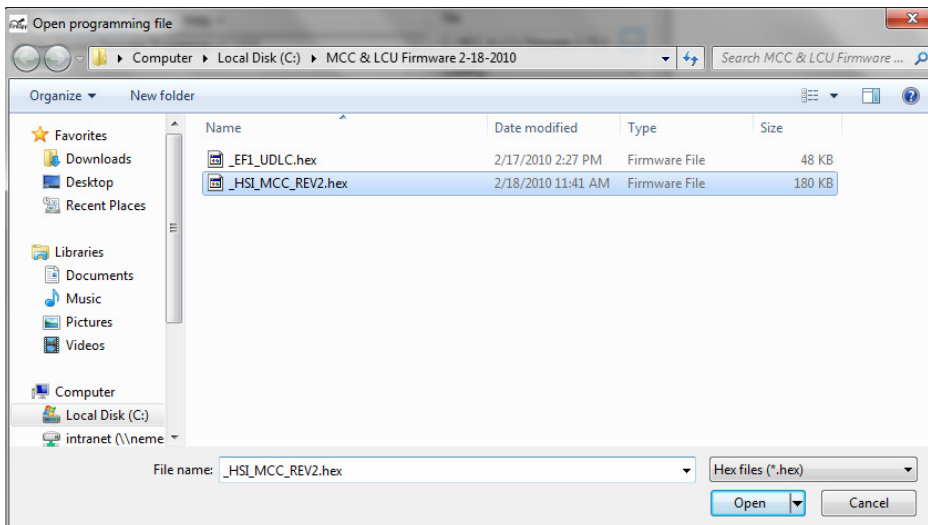
FireSpy Tracker Firmware Programmer V1.1.0.0

Ready



Step 5.

To the right of File, press the button on the top right side and it will let you browse your computer. Select the folder that you have placed the MCC and LCU hex files in. The folder will open up and you will have the two Hex files to pick from as below. Select the file that is labeled HSI_MCC_REV2.hex. Then Press “**Open**”



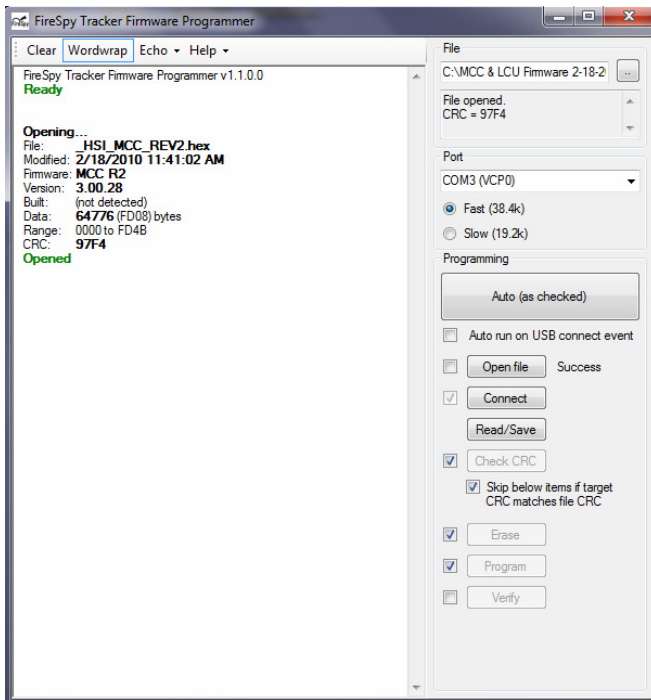
Step 6.

The screen will have the MCC firmware information come up in the left box, like it shows below.

File, Date, Version, CRC ect...

On the right side, below file will be a File open with the CRC=xxxx.

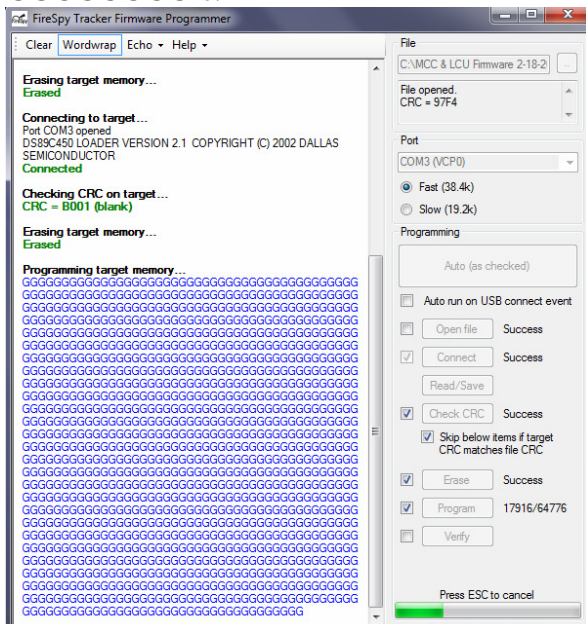
This number will match the same as in the box on the left. This is the Check Sum of the file you will be loading. You are ready to start the load command.



Step 7.

To start the load command, Press the Auto (as checked) area.

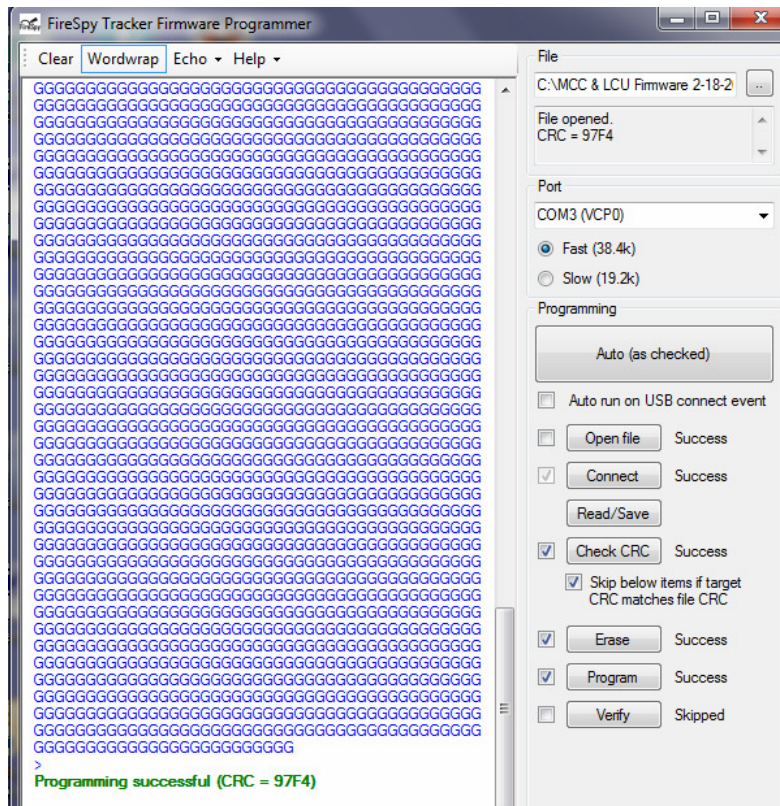
This will start the erasing command of the firmware. When the chip is erased, the program will state the loading of the new firmware. The box will start to fill up with GGGGGGGG's.



Step 8.

When the firmware is finished loading, your screen will look like below.

Programming successful (CRC=97F4) The CRC will change with newer updates.



Step 9.

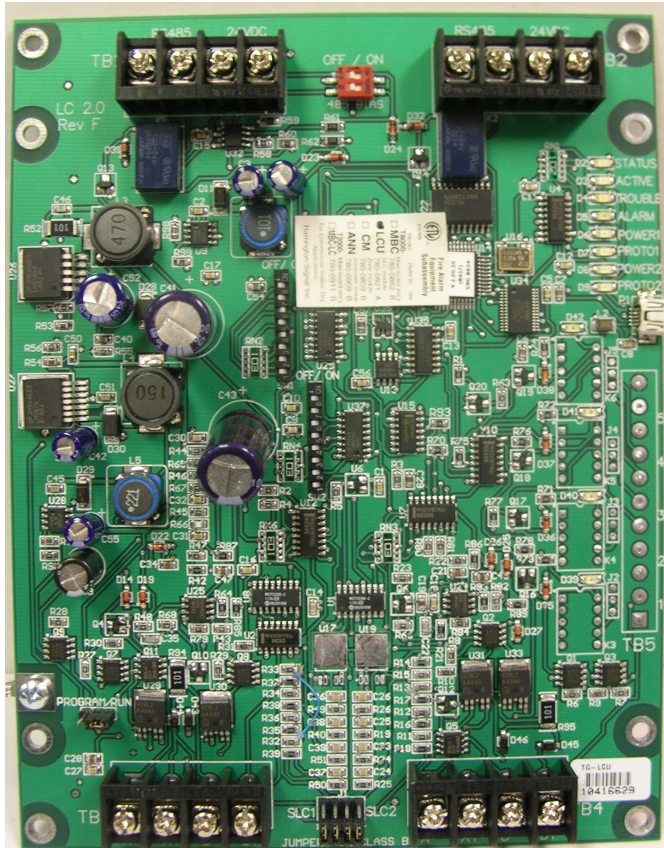
The T8000 MCC mother board is finish loading, place the **J5** jumper back to the **Run** mode. The display on the LCD of the system will tell you to press the Reset button to put the system back to Factor Default mode. This will take a few minutes.

When the panel finishes this step, you can start to load the firmware to the LCU Loop module.

Programming the LCU Module

Step 10.

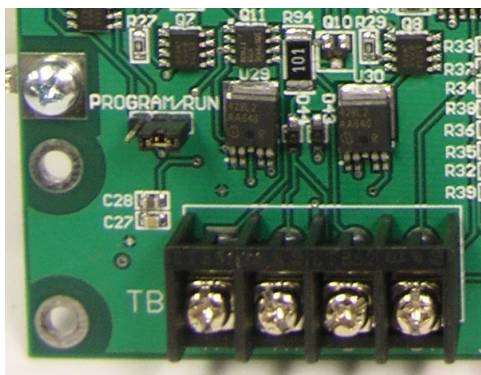
The LCU has the USB connector located on the right side of the module.
The Jumper for programming the firmware is located at the bottom left side of the LCU.



Place the jumper from the **Run** location to the **Program** location. The T8000 will go into a LCU communication fail trouble, when you put the jumper into the program mode.

This is normal.

Connect the USB cable into the USB connector on the right side of the LCU module and into the PC USB Port.



Step 11.

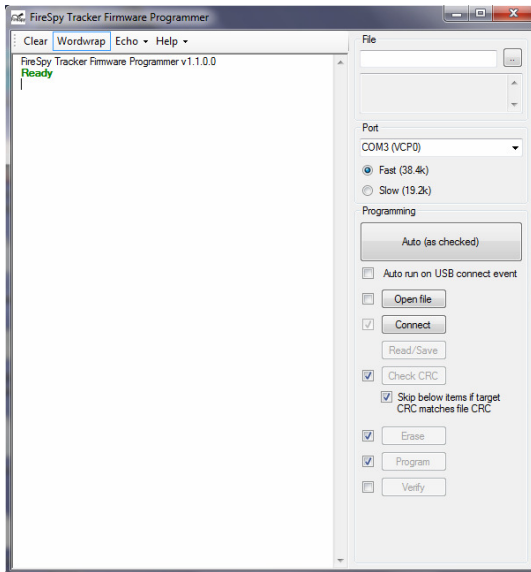
Place the USB cable into the USB port on the LCU, have the other end connected to the USB port on your computer.

Activate the FireSpy Tracker Firmware Programmer, and it will open up like below.

The large box on the left will come up with the following print inside, if it is connected.

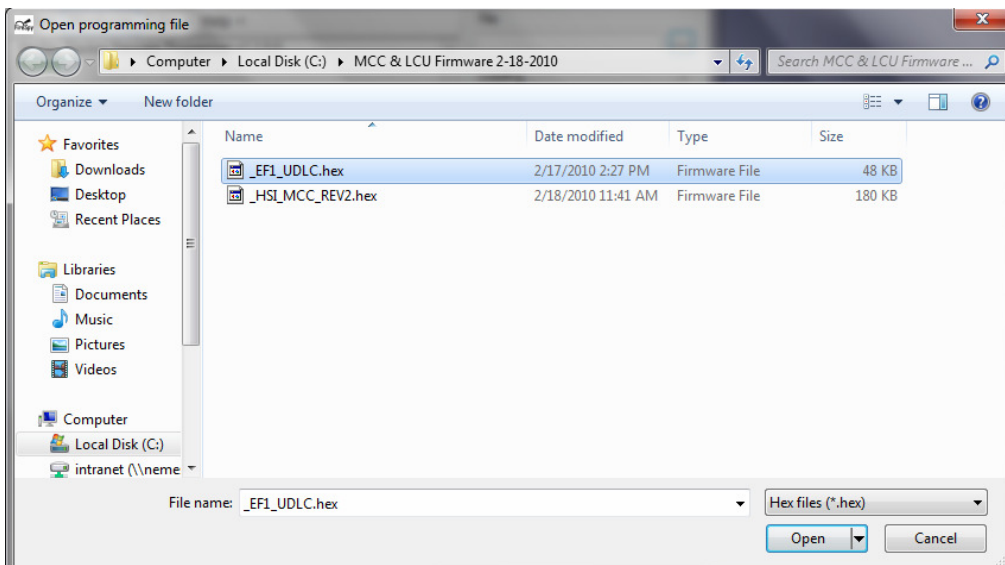
FireSpy Tracker Firmware Programmer V1.1.0.0

Ready



To the right of File, press the button on the top right side and it will let you browse your computer. Select the folder that you have placed the MCC and LCU hex files in.

The folder will open up and you will have the two Hex files to pick from as below. Select the file that is label EFL_UDLC.hex. Then Press “**Open**”



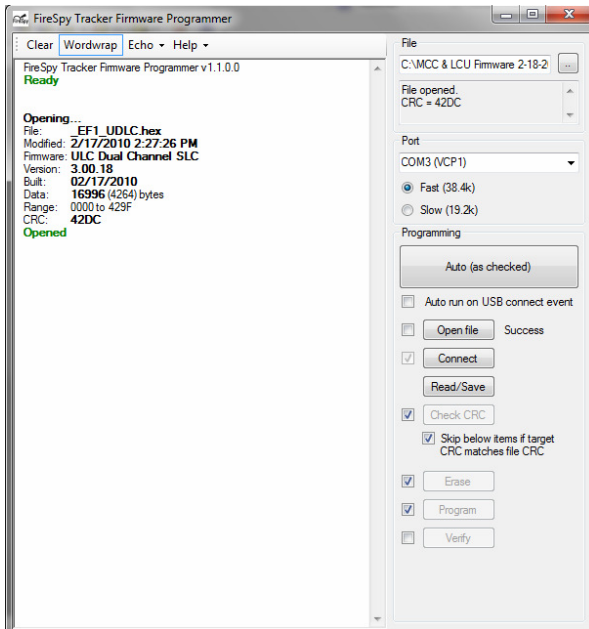
Step 12.

The screen will have the LCU firmware information appear in the left box, like it shows below.

File, Date, Version, CRC ect...

On the right side, below file will be a File open with the CRC=xxxx.

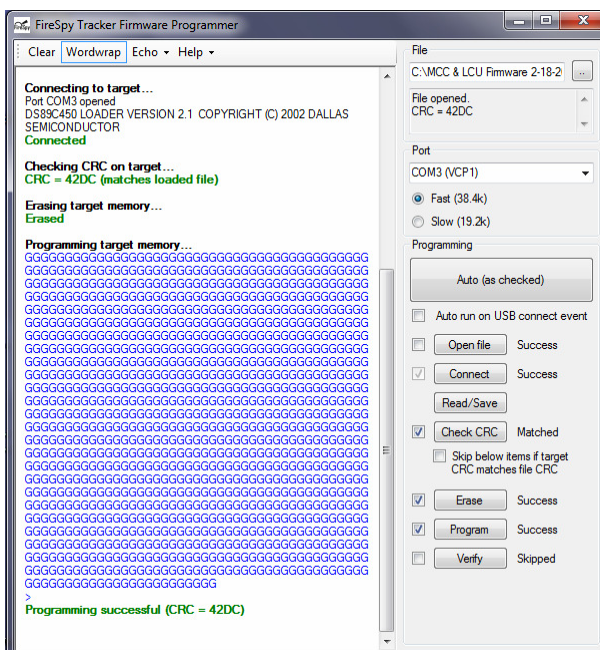
This number will match the same as in the box on the left. This is the Check Sum of the file you will be loading. You are ready to start the load command.



Step 13.

To start the load command, Press the Auto (as checked) area.

This will start the erasing command of the firmware. When the chip is erased, the program will state the loading of the new firmware. The box will start to fill up with G's



Step 14.

The LCU is finished with the loading, place the programming jumper back to the Run mode.

The panel will then take a few seconds to find the LCU, once the communications is established again between the MCC and the LCU, the communication fail trouble will clear itself.

The system is ready to take the download of the saved database that you saved at the beginning.

The Panel Programmer, Firmware Programmer and USB Drivers can be downloaded from the ESD Center, which is located on the Harrington Web site.

<http://www.harringtonfire.com>

If you have any issues or question on any of this, please contact the Technical Service Department at Harrington Signal.

800-577-5758