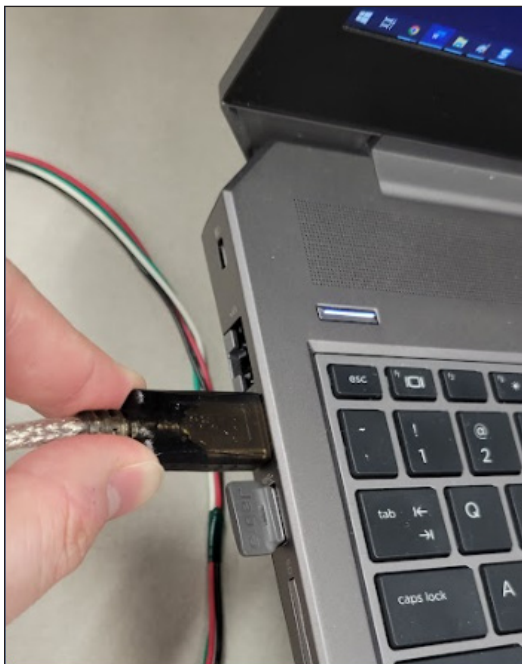


This guide describes how to update the firmware of the modules with an FL-5000 display that uses the FLR5-400 key fob control.

**Note:** Wait at least three minutes after making any changes to the configuration, price/message content, dimming, fonts, or price options before powering down the displays to ensure the changes are saved to the internal display memory.

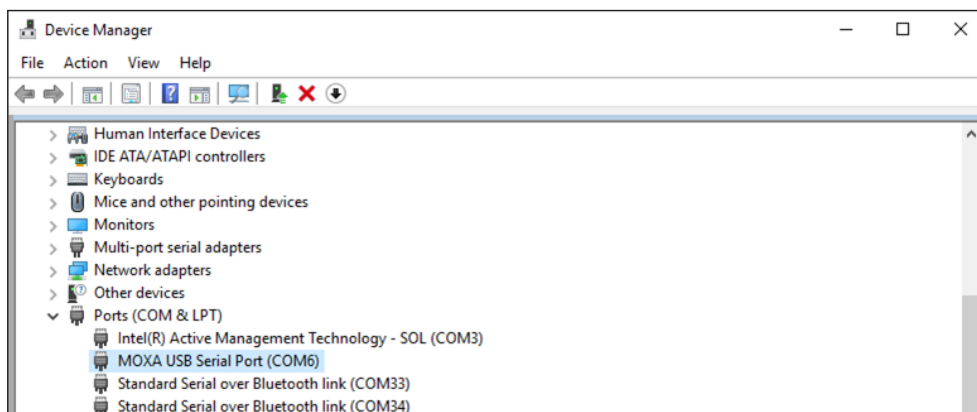
## Step 1: Download Update Utility (Windows 7, 10, 11) Prior to Arrival

1. Download the FL5Field\_UpdateUtility ZIP file from:  
[https://dakfiles.daktronics.com/downloads/Fuelight/FL5K/FL5\\_Update/FL5Field\\_UpdateUtility.zip](https://dakfiles.daktronics.com/downloads/Fuelight/FL5K/FL5_Update/FL5Field_UpdateUtility.zip)
2. Extract the FL5Field\_UpdateUtility ZIP file to a laptop.
3. Connect the USB end of the Update Harness (part # 0A-2252-4001) to the laptop. Refer to **Figure 1**.



**Figure 1:** Connect Update Harness to Laptop

4. Go into **Device Manager > Ports (COM& LPT)**, and make a note of the **COM** number of the adapter. Refer to **Figure 2**. This number will vary based on the USB port into which the adapter is connected.

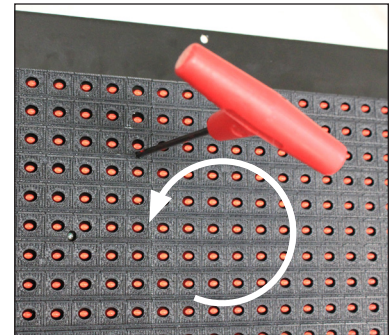


**Figure 2:** Device Manager > Ports (COM & LPT)

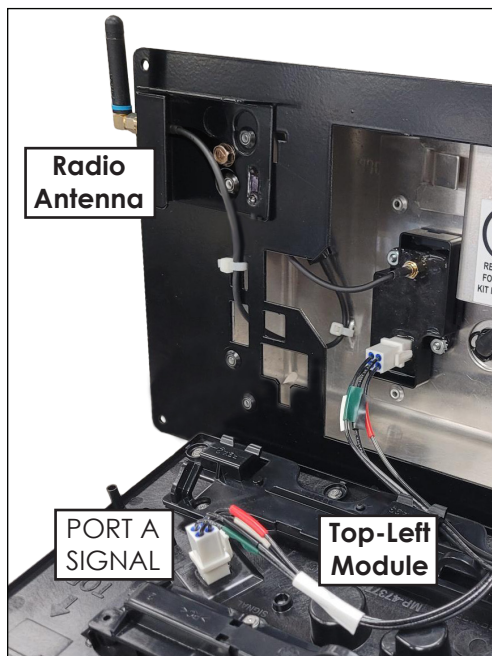
## Step 2: Access Module Connected to Receiver

**Note:** A lift truck may be required to access the module connected to the radio receiver.

1. Locate the radio antenna sticking out of the display face. The module adjacent to the antenna is the first module of the network and must be removed.
2. Remove the module by inserting a 1/8" Allen wrench into the latch access hole toward the top-center of the module and gently turning counter-clockwise. Refer to **Figure 3**.
3. Carefully tilt the module away from the face sheet.
4. Disconnect the 4-pin cable connected to the **PORT A SIGNAL** jack on the module. Refer to **Figure 4**.



**Figure 3:** Module Access



**Figure 4:** Receiver Plugged Into Module

5. Connect the 4-pin end of the Update Harness into the **PORT A SIGNAL** jack on the module.
6. Power cycle the module, either by disconnecting and reconnecting the 4-pin **POWER** connector shown in **Figure 5** or using the circuit breaker for the display pylon.



**Figure 5:** Module Power

## Step 3: Begin Update Process

Open the extracted ZIP file. In the "dist" folder, run the **UpdateMyFL5** application. Refer to **Figure 6**.

**Note:** Windows may warn about a potentially unsafe file. Click **More info** followed by **Run anyway**. Refer to **Figure 7**.

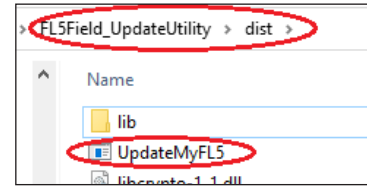


Figure 6: File Path

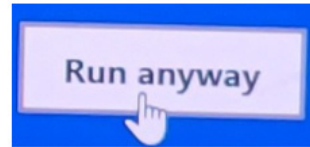
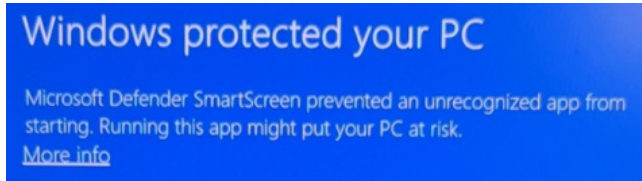


Figure 7: Windows Warning

Once the program opens, you will be prompted for the port number. Refer to **Figure 8**. Type in the COM port number obtained on **Page 1**, and then press **[ENTER]**.

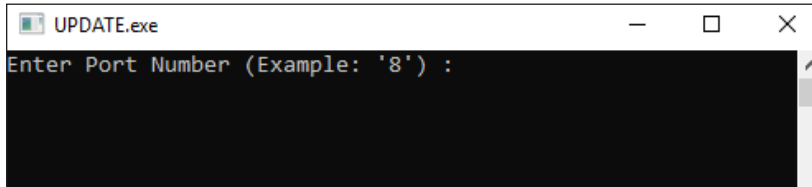


Figure 8: Enter Port Number

**Note:** If the USB end of the Update Harness (**Figure 1**) was disconnected from the laptop, be sure to re-connect to same USB port. Otherwise, find the new COM port number (**Figure 2**).

Once the correct COM port is entered, the utility will begin the update process. Refer to **Figure 9**.

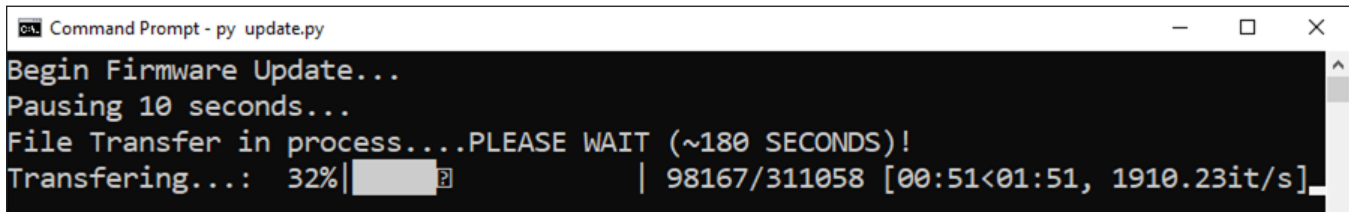


Figure 9: Begin Firmware Update

The update will take approximately six minutes. During this time, the display may show two solid or blinking lights on each module. Refer to **Figure 10**.

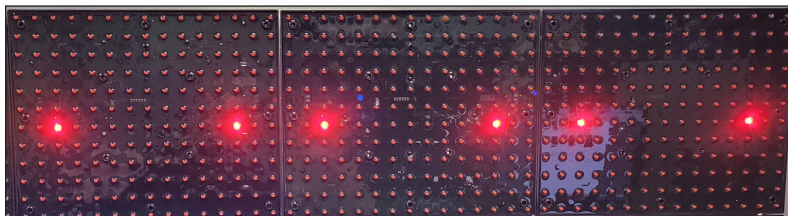


Figure 10: Modules During Update

The utility will update the program on all modules in a display network. After transfer is complete, the modules will apply the update and restart. During restart, the modules will go through a power-up display sequence. After power-up is complete, the utility will then load a Font package, allowing customers to select the latest FL5 Standard Font types. The utility will exit automatically when complete.






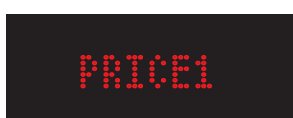

## Step 4: Disconnect Update Harness

When finished with the update process, disconnect the Update Harness from the top-left module, reconnect the radio harness to the module as shown in **Figure 4**, and then reinstall the module, ensuring no cables are pinched between the module and face sheet. Once you feel resistance on the latch, continue to turn until you feel a hard stop to verify the module is firmly secured in place.

## Step 5: Re-Configure Updated Displays and Product Mapping

Press and hold both the **ALT** and **EDIT\*** keys until the displays blank and the configuration menu appears. Use the **<** and **>** keys to cycle through the available menu items. Press the **✓** key to enter the selected menu item. While in a menu, press the **✗** key to return to the previous menu.

**Note:** DO NOT make any changes to the configuration! Verify and keep all existing settings by just pressing the **✓** key though each menu as it was already programmed. These steps are simply to recommit the settings to memory. Refer to the **FL5-400 Installation and Operation Quick Guide (DD4906804)**, available online at [www.daktronics.com](http://www.daktronics.com), for more info about the menu system.

Action	Input	Display
<p><b>Set Display Content</b></p> <p>The <b>Content &gt; Mode</b> menu</p> <p>a) designates whether the display will show numeric prices or message text and</p> <p>b) assigns unique price numbers or captions for up to four display frames.</p> <p>A "price number" may be for a single fuel grade or a combination of a fuel grade and a payment method.</p>	From the main menu, select <b>Content</b> , and then press <b>✓</b> .	
	Use <b>&lt;</b> and <b>&gt;</b> to " <b>Pick</b> " a display highlighted with an LED border, and then press <b>✓</b> .	
	Press <b>✓</b> again to enter the <b>Mode</b> menu.	
	Verify the display is correctly assigned as either <b>PRICE</b> or <b>MESSAGE</b> , and then press <b>✓</b> .	
	<b>Note:</b> If the display is configured for more than one frame, the frame number ( <b>F#</b> ) shows for 2 seconds.	
	Verify the correct price number ( <b>1-12</b> ) for a <b>PRICE</b> display or the desired caption (CASH, CREDIT, etc.) for a <b>MESSAGE</b> display is shown, and then press <b>✓</b> .	
	<b>Note:</b> If the display is configured for more than one frame, repeat this step to verify a price number or message text is assigned for every frame.	
Repeat the above steps to verify content is assigned to all displays and frames (as applicable).		

## Step 6: Verify Successful Update

1. On the key fob, press and hold both the **ALT** and **EDIT\*** keys until the displays blank and the configuration menu appears.
2. Use the ◀ and ▶ keys to cycle through the available menu items, and then press the ✓ key to enter the **Diagnostics** menu.
3. Cycle through the available menu items, and then press ✓ to enter the **SW Version** sub-menu.
  - If all modules display the latest program version as shown in the CUR\_VER.txt file in the extracted ZIP file, the program update was successful.
4. Press the ✗ key to return to the previous menu.
5. Cycle through the available menu items, and then press ✓ to enter the **Fnt Version** sub-menu.
  - If all modules display the latest font package version as shown in the FONT\_VER.txt file in the extracted ZIP file, the program update was successful.

If either of the above verifications failed, retry the update process. Otherwise, the update process is complete.

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