



# SERVICE BULLETIN

<b>ISSUE DATE:</b>	1/30/2018
<b>SERVICE BULLETIN SUBJECT:</b>	Vehicle Magnetek Software Update
<b>VINs or MODELS AFFECTED:</b>	Entire Fleet
<b>COMPLETE BY:</b>	Next available service opportunity unless directed to complete immediately by Proterra Service
<b>SERVICE BULLETIN #:</b>	SB-18-09

**NOTICE! It is expected that this process will require 1 hour per bus. Please schedule appropriately to minimize vehicle downtime.**

## VEHICLE MAGNETEK SOFTWARE UPDATE

### Description

The reason for this software update is to update the vehicle Magnetek. This change will bring the vehicle up to the latest version of Magnetek and improve charging performance:

### Summary of Software changes:

This update provides additional functionality for buses used at multi-charge station sites and other functional updates.

## Tools/Programs Required:

### Tools Required:

- Laptop Computer
- Supplied Programming Cable (Deutsch to USB-A Male)

### Programs Required:

- RCP Program

### Software Files Required:

- *Supplier\_Software\_2\_4\_032252.hex*
- *Magnetek\_Config\_Proterra.rcd*

## Update the Magnetek Software for Customer Vehicles:

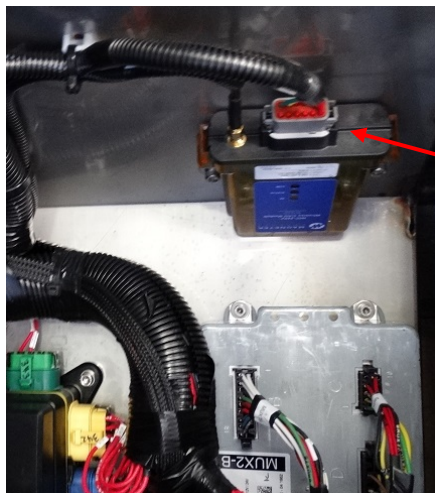
The purpose of this procedure is to update the Vehicle Magnetek software version.

1. Access the Driver's Workplace in the bus. Turn the master switch to the "ON" position.

**Note:** Do not press the "START" button. The high voltage should be off for this procedure.



2. Disconnect the harness connector from the Vehicle Magnetek.



Disconnect Magnetek

3. Connect the supplied programming cable between the Vehicle Magnetek and the harness connector that you removed.



Magnetek

Programming Cable

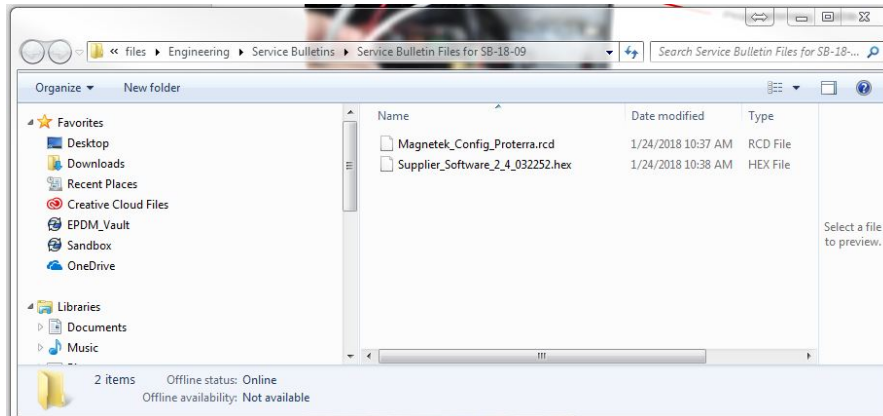
- The Magnetek will be powered on and the “RF Link” LED will blink green to show that communications have been established.

**Note:** It may take up to one minute for the Magnetek to initialize.

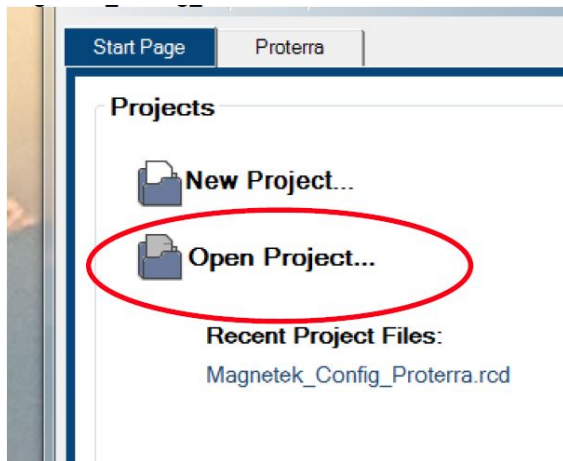


RF Link LED

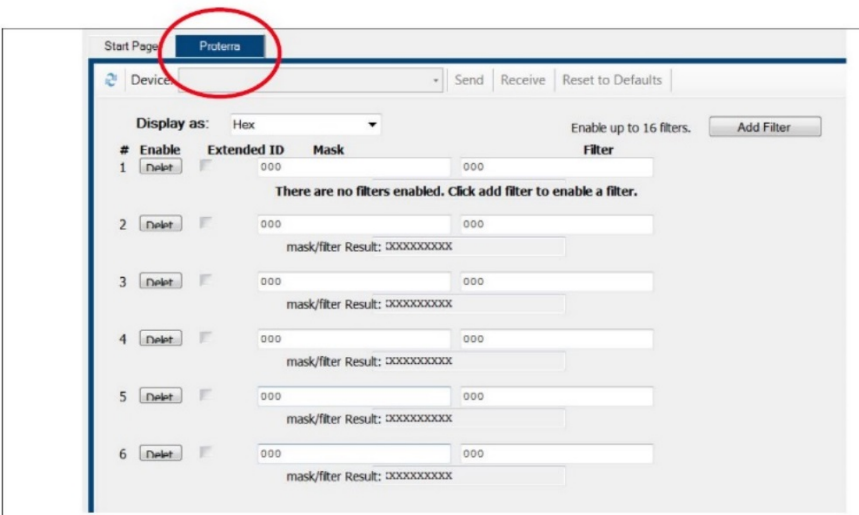
- Access the following folder to obtain the new configuration files:  
[\\BUS.Local\files\Engineering\Service Bulletins\Service Bulletin Files for SB-18-09\](#). Copy both files in this location to a folder on the local hard drive.



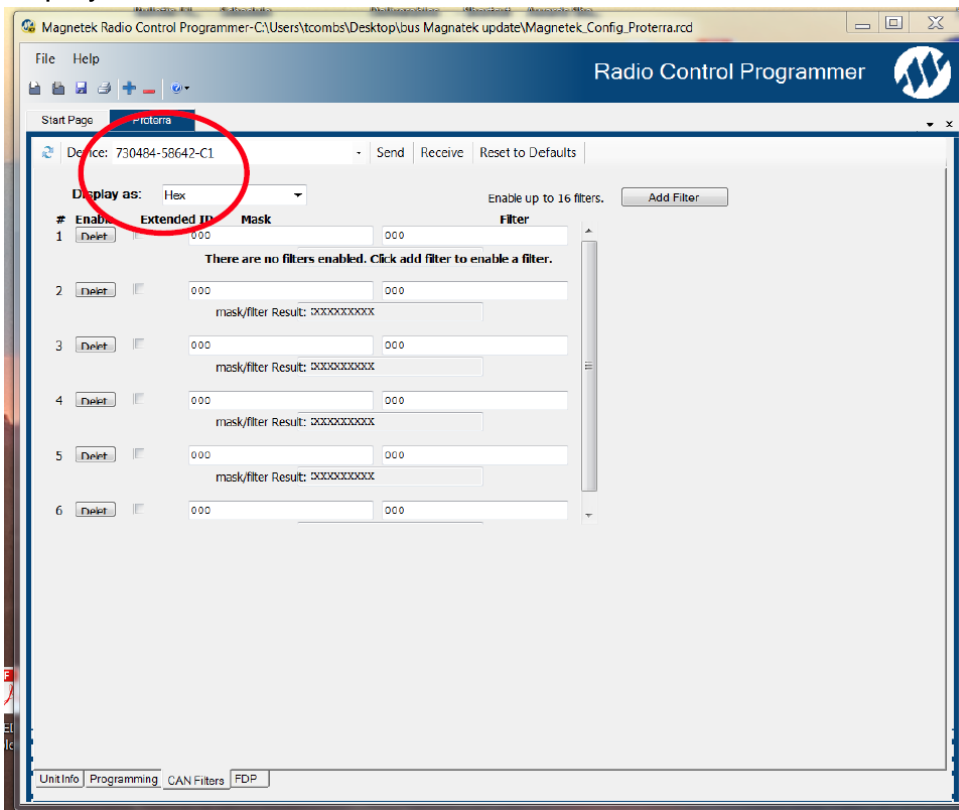
- Start the RCP program.
- Click the “Start Page” tab within the RCP program. Click on “Open Project” and navigate to the location on the local hard drive where you stored the two configuration files. Double click on the Magnetek\_Config\_Proterra.rck file. This loads the project profile into the RCP software.



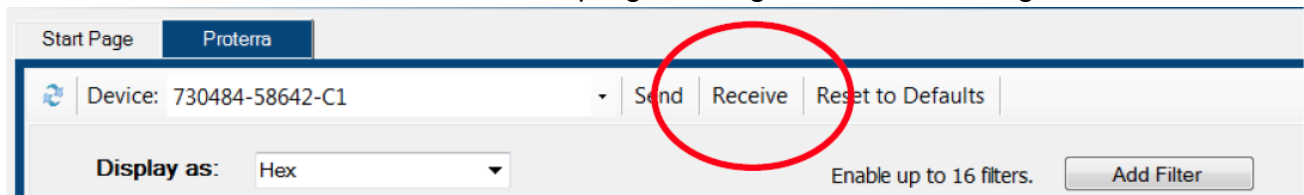
8. Click on the “Proterra” tab.



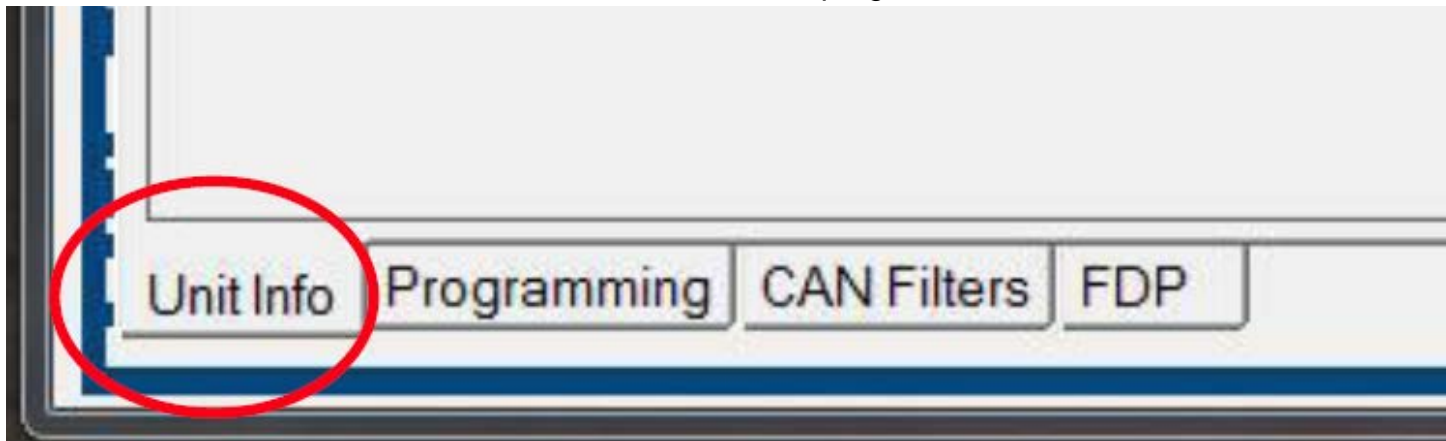
9. Plug the USB-A connector into the laptop. The device will install, and the device ID should display in the “Device” window as shown.



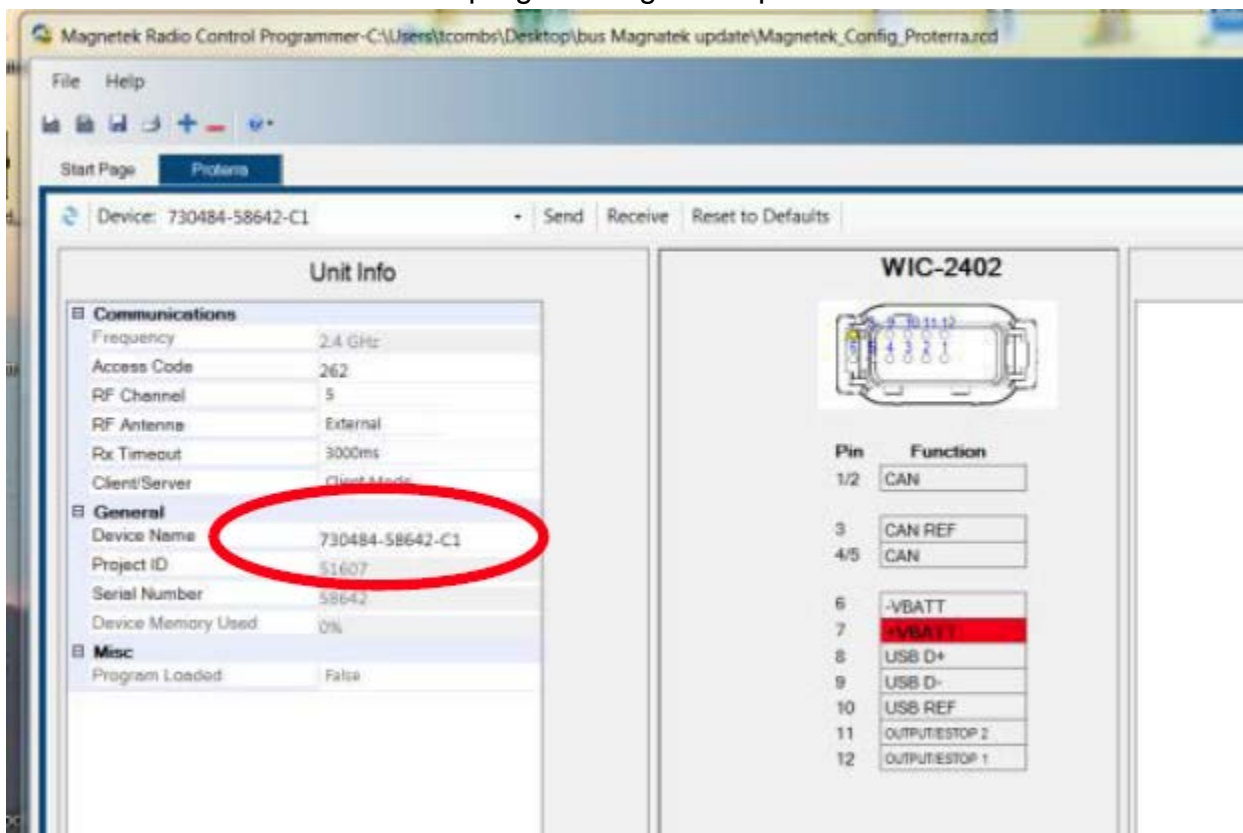
10. Click on the “Receive” tab to retrieve the programming data from the Magnetek.



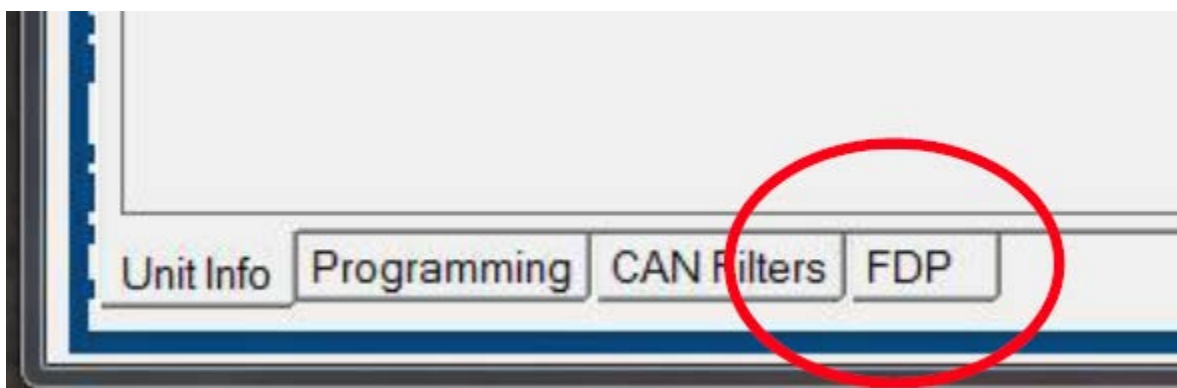
11. Click on the “Unit Info” tab at the bottom left corner of the program.



12. On the “Unit Info” screen, locate and copy the serial number to a safe place. You will need to re-enter the serial number when programming is completed.

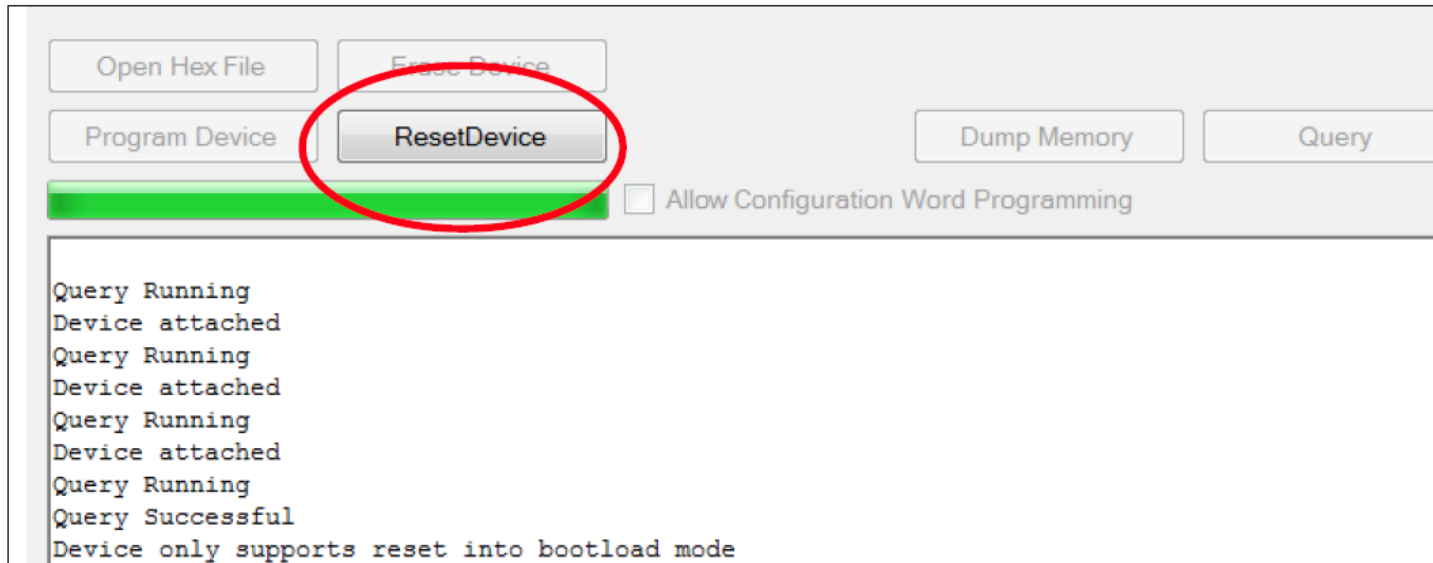


13. Click the “FDP” tab at the bottom left of the screen.

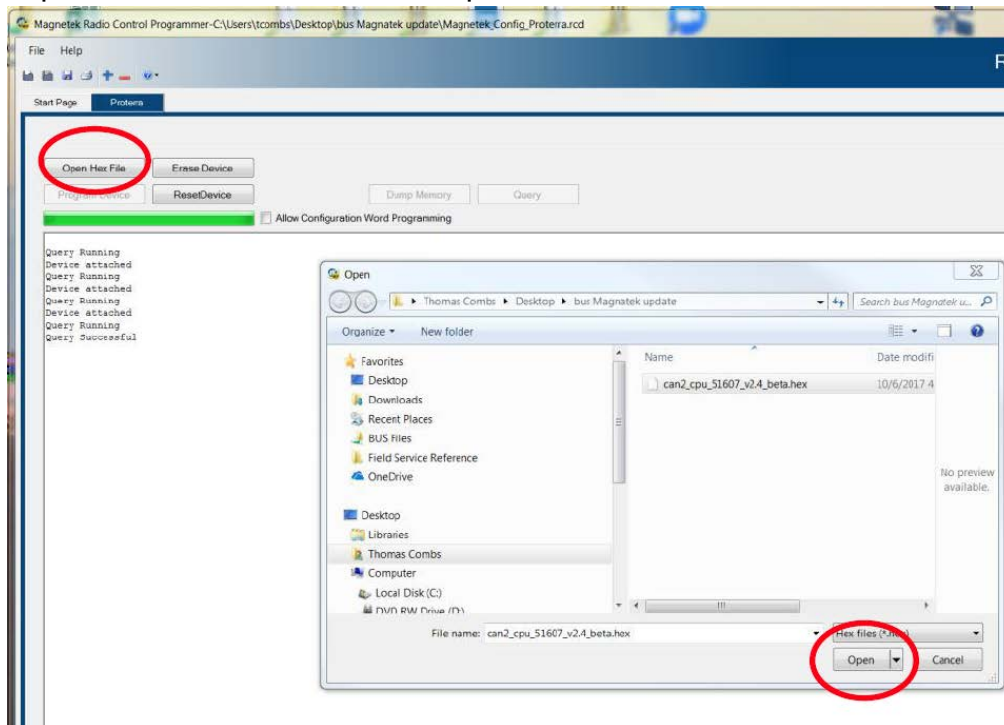


14. Click on the “ResetDevice” button of the screen that appears. This will reset the Magnetek into “Boot Load” mode to allow the software update.

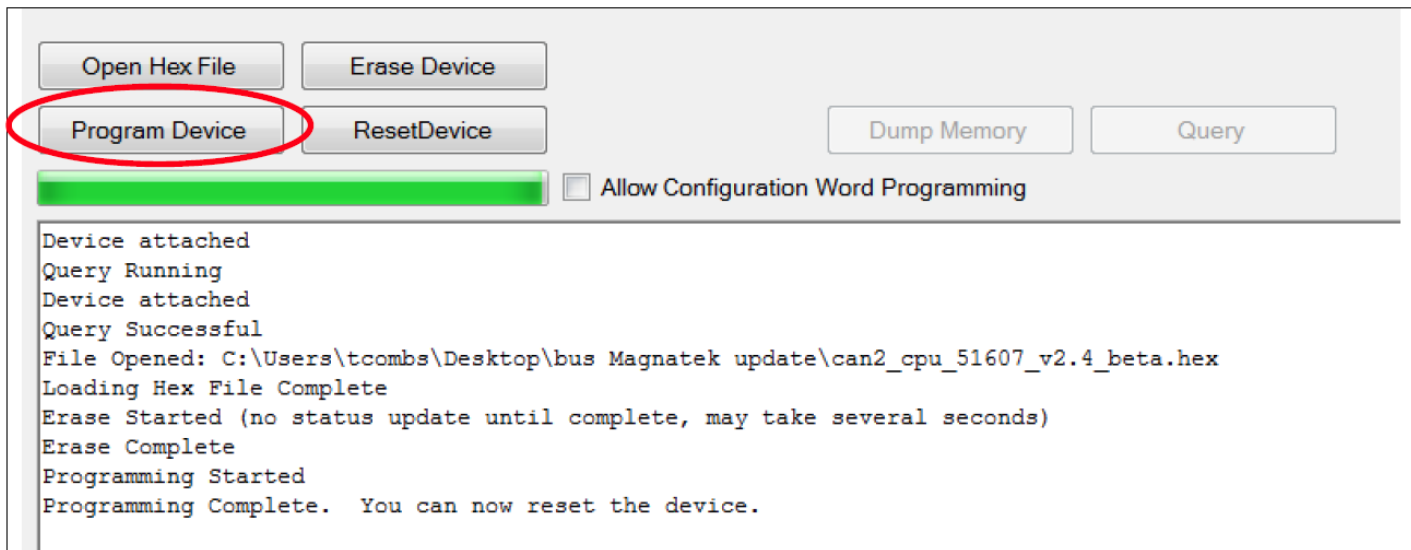
**Note:** The LEDs on the Magnetec will turn off during this stage.



15. Click on the “Open Hex File” button. Navigate to the location on the local hard drive where you saved the two software files. Select the Supplier\_Software\_2\_4\_032252.hex file that you copied there earlier. Click the “Open” button to load the file.



16. Click on the “Program Device” button to write the new file to the Vehicle Magnetek.

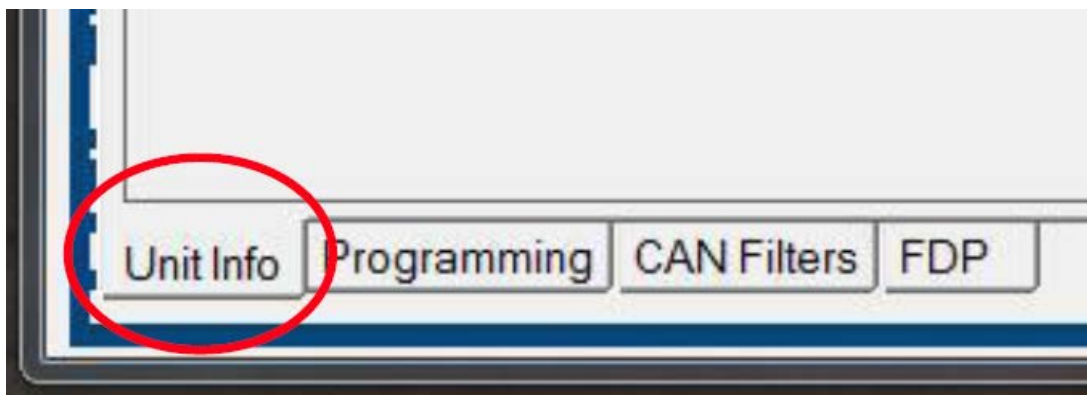


17. Wait for the programming process to complete. Disconnect the Magnetek Deutsch connector for 5 seconds, then reconnect it. This allows the computer to disconnect from the Magnetek and reconnect to it.

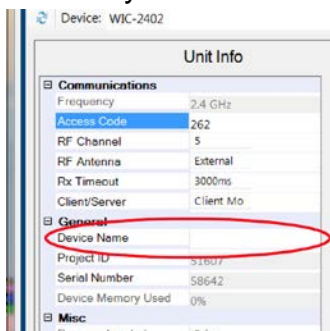
18. Click the “Refresh” button to renew the Magnetek connection. When the refresh operation is complete, WIC-2402 will be displayed in the “Device” window as shown below.



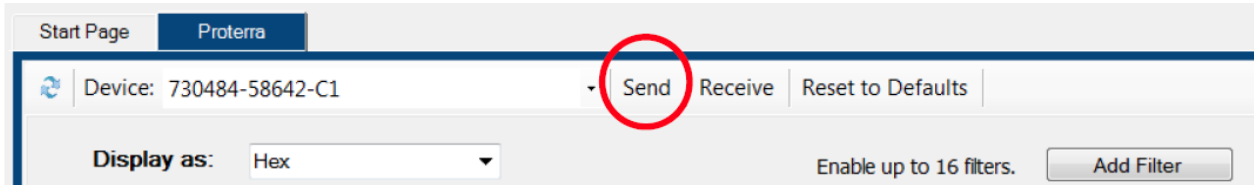
19. Click on the “Unit Info” tab at the lower left on the screen.



20. Type the unit serial number that you recorded earlier into the “Device Name” window.  
**Note:** If you did not save it, it may be found on the unit’s front cover for manual entry.

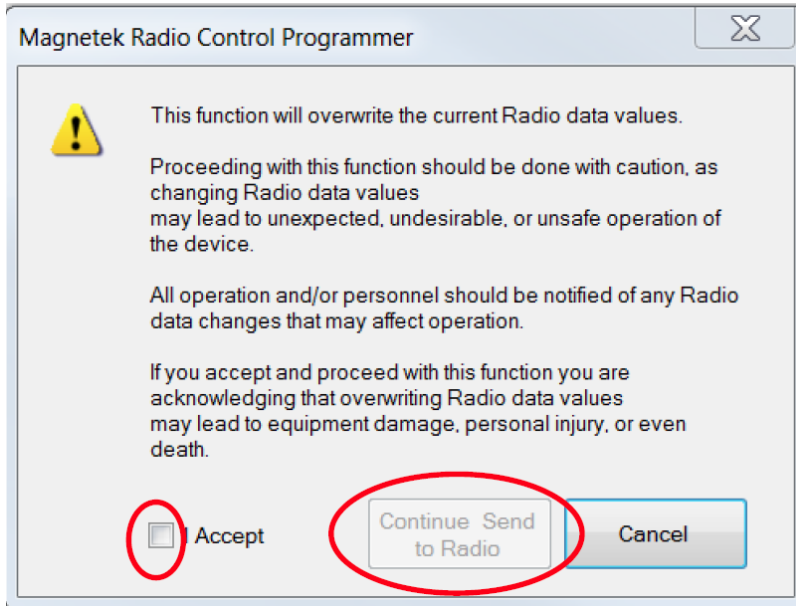


21. Click the “Send” button to upload the new filters to the Magnetek.



22. Check the “I accept” box and click on the “Continue Send to Radio” button.

**Note:** The serial number is not saved At this step.



23. Disconnect the programming from the Magnetek and the harness.

24. Reconnect the Magnetek to the harness.

25. The Magnetek is now programmed and ready for use.