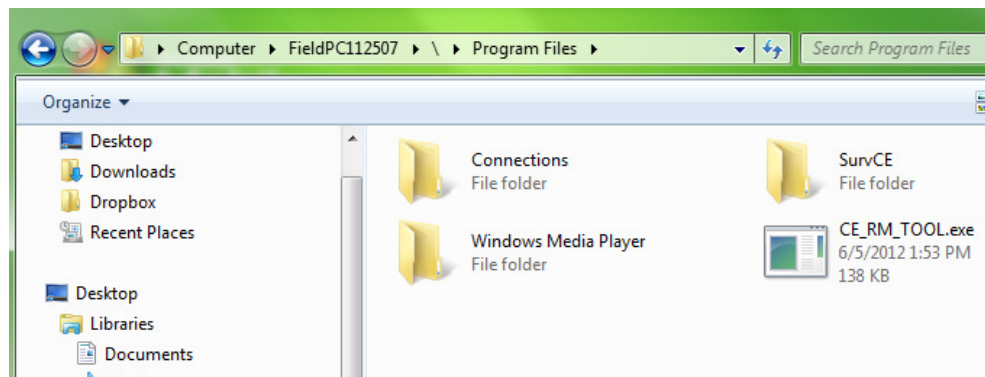# Allegro MX with Radio Pack for Carlson Robot

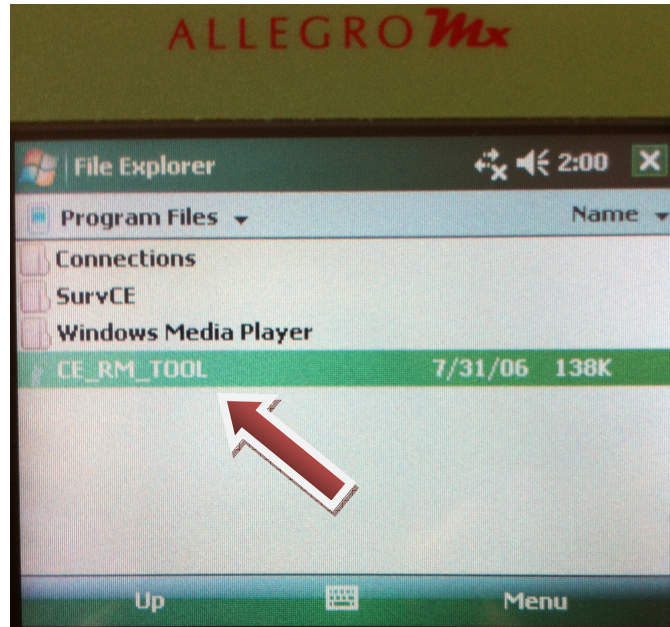## Checking the Link Number on Allegro MX to run the Carlson Robot and how to change it

First you will want to download the 'CE_RM_Tools' or 'RM_Tools' program from the web. I have seen this called by both names.
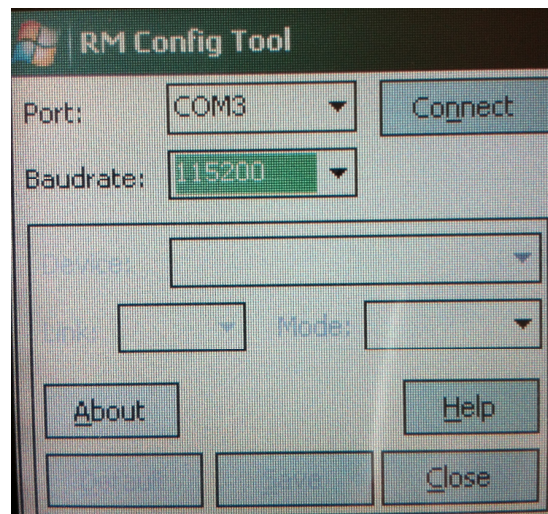

On the Allegro MX, connect by using ActiveSync or Mobile Device Center, copy 'RM_Tools' file on the Allegro under the 'Program Files' location. (then you can disconnect the allegro from the computer)

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Carlson Software Inc.
102 West 2nd Street
Maysville, KY 41056

www.carlsonsw.com
Phone: (606) 564-5028
Fax: (606) 564-6422

On the Allegro, go to "Start > Programs > File explorer" and at the top of the page, use the pulldown to navigate to "Program Files" – there you should see the RM_Tools if it was copied correctly.
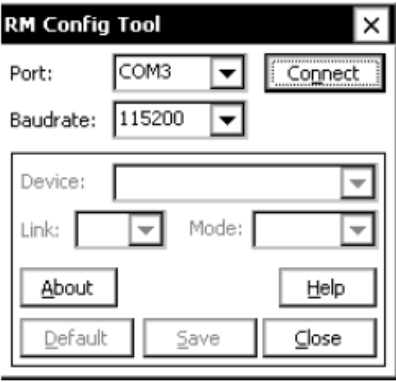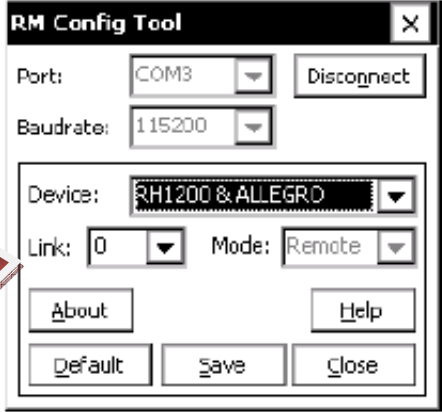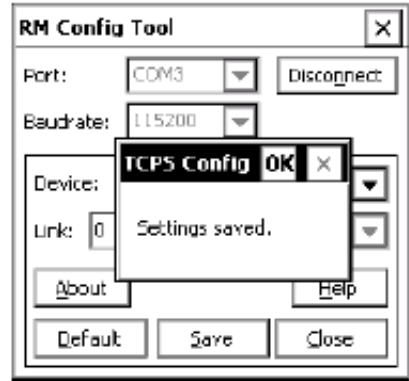

Tap the RM_Tool program (image above) to start it, and you should see the RM Config Tool open (image below)

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The RM_TOOL configuration program operates onboard the AllegroCX/RCS data collector and enables the user to configure the radio device directly from the AllegroCX/RCS.

Parameter	Description
Port	The COM port (on the AllegroCX/RCS) is where the radio device is connected. The integrated radio modem is set to PORT 3.
Baud Rate	The baud rate to connect to the radio device. This is 115200.
Device	Instrument/RH device and controller selection.
Link	The Link number must be the same on both Base and Remote units.
Transceiver mode	Base mode for the radio attached to the robotic total station. Remote mode for the radio at the prism pole.

Step	Action	Display
1	To connect to the integrated modem on the AllegroCX/RCS, set the following parameters: • Port: **COM3**. • Baudrate: **115200**. • Tap on the **Connect** button. The program will establish communication with the radio and retrieve the current radio parameters.	

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Step	Action	Display
2	Once communication is established, the current radio parameters will be displayed, as shown. Set the following parameters: • Link: (must match on Base and Remote). • Device: RH1200 & ALLEGRO. • Mode: Remote. • Press the Save button. This programs the new settings into the radio. Note: To disconnect without changing the current parameters, press the Disconnect button.	
3	After pressing the Save button, the program will display a message indicating that the new radio settings have been saved. • Press the OK button. This is your indication that the radio has been programmed successfully.	

Lastly, you will want to click the "disconnect" button at the top right and then "close" at the bottom right to exit the RM_Tool.