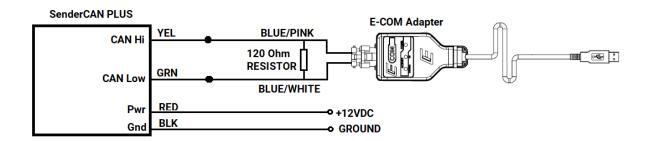


# Installing Firmware in SenderCAN PLUS using the E-COM CAN Bootloader Utility

### Hardware Required:

- 1) E-Com USB/CAN Adapter Harness P/N E2046014B
- 2) 12V Power Supply
- 3) Termination resistor (120 ohm)

# **Connections:**



#### **Software Installation:**

1) Install the E-COM CAN Bootloader software.

https://enotechservstorage.blob.core.windows.net/helpcenterfiles/SenderCAN%20PLUS%20CA N%20Bootloader%20Utility/E-COM%20CAN%20Bootloader.zip

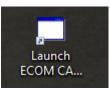
2) Install the E-COM driver.

https://enovationexpertsystem.blob.core.windows.net/mcxcodesys/ECOM\_Driver\_Setup\_V3.5 .0.0.exe



# Programming Steps:

1) Launch the E-COM CAN Bootloader Utility, there should be an Icon located on your desktop.



2) Select File to download – The file type will be .Hex

🔜 ECOM CAN Bootloader	_	$\times$
File		
Select Download File Select File To Download Current File: C:\Users\ecamen\Desktop\78_70_0683_V1_11.production.hex		
Download Via CAN       Download .HEX file       Cancel		
		_



**3) Start the Download** - Select "Download Hex File" then apply power to the SenderCAN. If power is already on, turn it off then back on. The SenderCAN will only connect withing the first few seconds after a power cycle.

🔜 ECOM CAN Bootloader	_	×
File		
Select Download File		
Select File To Download		
Current File: C:\Users\ecamen\Desktop\78_70_0683_V1_11.production.hex		
Download Via CAN		
Download .HEX file Cancel Switch ON Now		
CPU: PIC18F46K80 Calculating number of packets to send		
Packet total: 5937		

4) Update Complete - Wait for progress bar to go to 100% and the status indicates Complete, this will take 1-2 minutes.

💀 ECOM CAN Bootloader				_	×
File Select Download File					
Select Download File Select File To Download Current File: C:\Users\ecame	Deskten 79, 70, 0692	V1 11 production how			
Download Via CAN	an Desktop (70_70_0005				
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CPU: PIC18F46K80 Calculating number of pac Packet total: 5937 Download successful.	ckets to send				



## **Troubleshooting:**

1) E-COM USB/Adapter issues – if the adapter is not found or driver not installed you will receive this error message. Verify driver has been properly installed and E-Com cable is plugged into the computer.

🔜 ECOM CAN Bootloader			_	×
File				
Select Download File				
Select File To Download				
Current File: C:\Users\ecarmen\Desktop\78_70_068	3_V1_11.production.hex			
Download Via CAN	ECOM CAN Programmer X			
Download .HEX file Cancel				
	No ECOM interface found.			
CPU: PIC18F46K80				_
CPU: PIC 18r46K80 Calculating number of packets to send Packet total: 5937	ОК			
Facket Iotal. 5557		1		

2) CAN Communication Issues – If a termination resistor is missing, connection missing, or CAN Hi and Low are wired backwards the program will wait at the "Switch On Now" status message and not connect with the SenderCAN. Cycle the power if it does not connect within the first 10 seconds..

ECOM CAN Bootloader				_	$\times$
File					
Select Download File					
Select File To Download					
Current File: C:\Users\ecarm	en\Desktop\78_70_0683	3_V1_11.production.hex			
Download Via CAN					
Download .HEX file	Cancel	Switch ON Now			
CPU: PIC18F46K80 Calculating number of pa Packet total: 5937	ckets to send				
1					