MID:COM

MIDWEST COMPUTER REGISTER CORP.   MANUFACTURERS OF ELECTRONIC FUEL REGISTERS
1605 170TH St.   Box 376   HAMPTON, IA 50441   **PHONE 641/456-4847   FAX 641/456-4600**

Instructions to Update the E:Count Firmware

1. **Save the E:Count Settings.**
   a. E169E (and newer) Standalone:
      i. Print the Calibration Report (CALTKT) from the Delivery Menu – this will print all settings in the E:Count.
   b. E168E and Older, or if using the E:Count with and 8000
      i. Go through all menu settings (Calibration, Deliver, and Setup menus) and make a note of all settings.
   c. Use the Midcom Matrix software to "Get All from E:Count".
      i. Download and install the ***Matrix Utility*** from www.midcomcorp.com if necessary.
      ii. You may have to register the Matrix for a license before you can use it.
   d. Use the Matrix software to "Get Calibration Info from E:Count".
   e. Save the current Matrix settings to a known file.

2. **If Replacing the "SIP Stick" insert the new SIP Stick and skip to step #7, otherwise:**
   a. Connect the "E:Count Programming Harness" from the serial port on your PC to the Programming Port on the E:Count.
   b. The Programming Port is located on the Upper-Left corner of the E:Count when you are facing the back of the E:Count.

3. **Extract the 4 E:Count Firmware Upgrade files to a folder on your computer.**
   a. KIT5K.EXE - the dos utility that communicates with the processor in the E:Count.
   b. Exxxx.HEX - updated E:Count firmware (in Intel hex format)
   c. Exxxx.BAT - batch file to run the update program
   d. Exxxx.CMD - file of commands for the KIT5K dos utility
   e. NOTE: If your COM port is *not* port 1, then you'll need to edit the .CMD file to reflect the correct COM port number (it's the COM command in that file).

4. **Unscrew the "PROGRAM" bolt of the E:Count.**

5. **If your computer is Windows XP skip to step #5b, otherwise:**
   a. Vista/Win7/Win8: Download and install the ***KIT6K Utility*** from www.midcomcorp.com
      i. Click "Select CMD File" and browse to the folder where you extracted the .CMD file.
      ii. Click "Open"; the update program will finish automatically.
   b. XP Only: Run the "Windows Batch File"
      i. Double-click the .BAT file; the update program will finish automatically.

6. **After the update is finished, screw the "PROGRAM" bolt of the E:Count in.**
   a. The E:Count should reset (it may be necessary to reset several times).
   b. Shut down the power to the E:Count each time you are prompted to do so.

7. **Reload the E:Count Settings.**
   a. Load the Matrix file you saved earlier.
   b. Use the Matrix software to "Send All to E:Count".
   c. Unscrew the CALIBRATION BOLT, then screw it back in to temporarily enter Calibration Mode and then exit right back out – required to send calibration settings.
   d. Use the Matrix software to "Send Calibration Info to E:Count".
   e. Go through all menu settings (Calibration, Deliver, and Setup menus) and make any setting changes as necessary based on the previous Calibration Report or any notes you saved.

MID:COM

MIDWEST COMPUTER REGISTER CORP.   MANUFACTURERS   OF   ELECTRONIC   FUEL   REGISTERS
1605 170TH St.   Box 376   HAMPTON, IA 50441   PHONE 641/456-4847   FAX 641/456-4600

E:Count Programming Harness (PN: 702-0073 $40) to Connect the Computer Directly to the
E:Count Programming Port to update E:Count Firmware using either KIT5K or KIT6K software.

E:Count Programming Harness   **E:Count Programming Port**
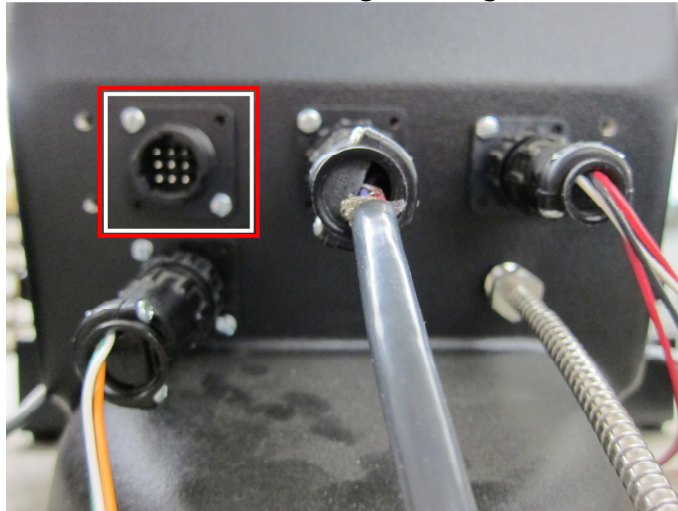
Standard Straight-Through M/F RS-232 cable to connect the laptop/computer to the **Serial1-Host Port** on
the PCM for normal serial communications to either Register1 or Register2 using the Matrix or any-other
laptop/computer software.

Standard Straight-Through M/F RS-232 Cable   **PCM Serial1-Host Port**