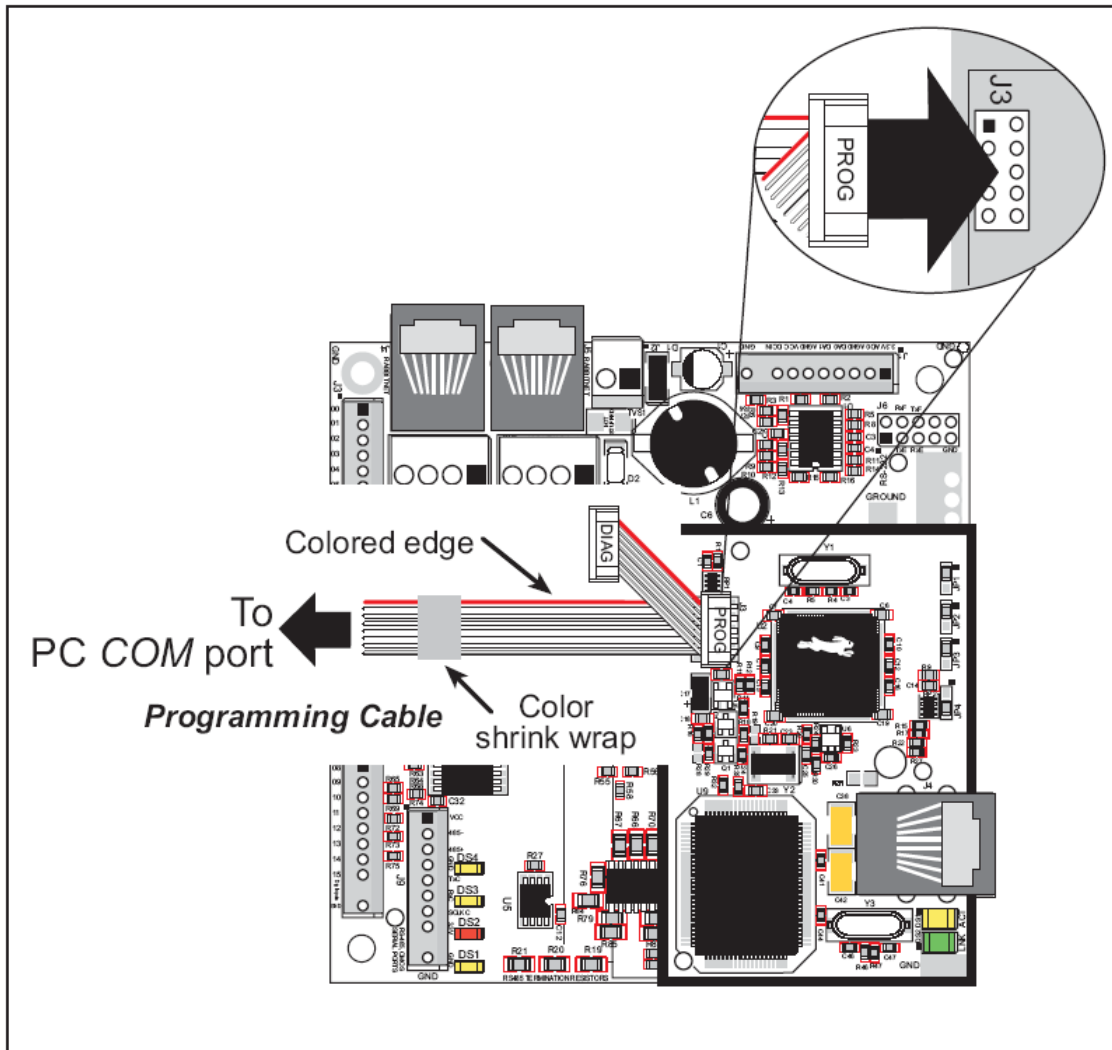




## Manual Re-Programming of Rabbit PLC in Endurance S-250 Control Panel Using the Rabbit Field Utility

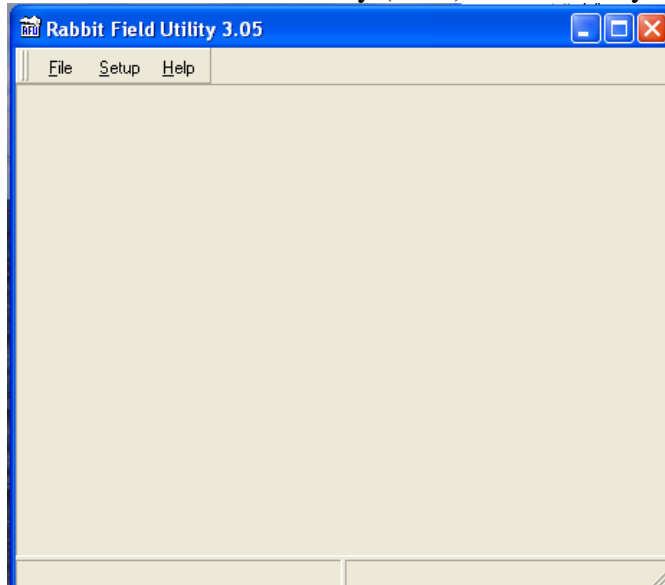
1. Connect the programming cable to the PLC board as shown below.



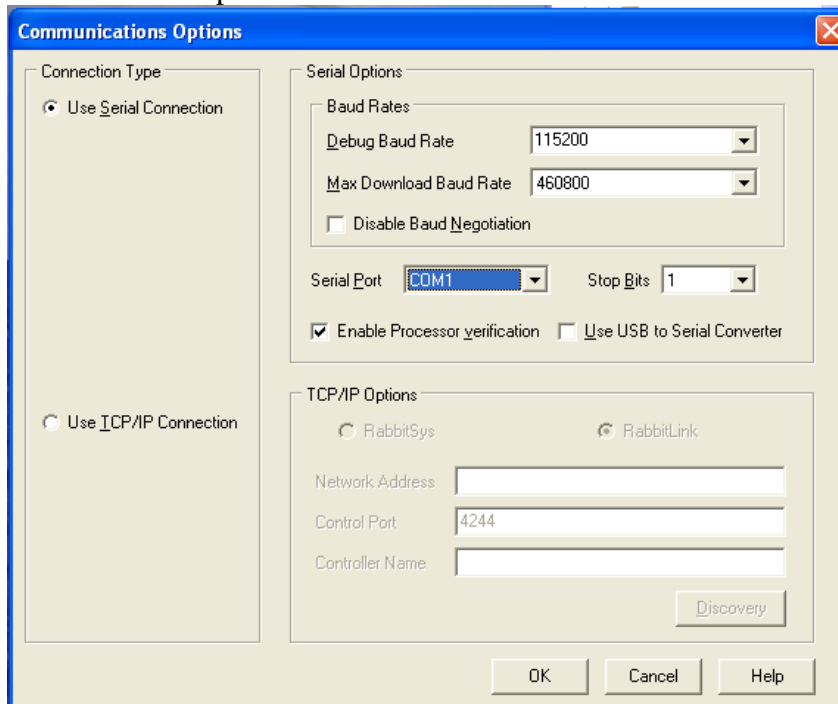
2. Connect the other end of the programming cable to a serial port on your computer (or use a serial to USB converter if no serial port is available).



3. Start the Rabbit Field Utility (RFU) software on your computer.



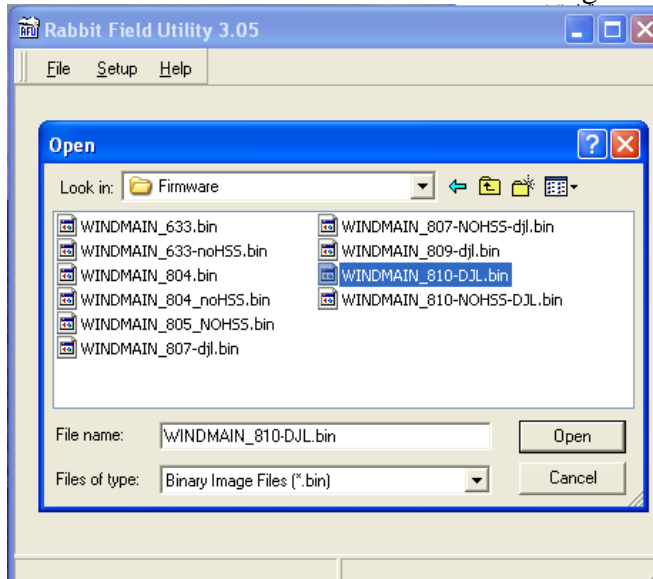
4. Place the turbine in a Halt state by turning the key switch to OFF (For older panels, pull out the Halt switch located in terminal block 37). Be sure the PLC is powered up.
5. In the RFU Setup menu select Communications.



- a. Select the proper Serial Port from the drop down menu (if you don't know which one to use, you can use the Control Panel to find out, or use trial and error if there are only a few choices).



- b. Be sure the Connection Type selection is Use Serial Connection
  - c. If using a USB to serial converter:
    - i. Select the “Use USB to Serial Converter” check box
    - ii. Deselect the “Enable Processor verification” check box.
  - d. Click OK
6. From the Setup menu select “File Locations...” For each of the three entries be sure they point to the proper file included with the RFU package you received as follows:
- a. Cold Loader: coldload.bin
  - b. Pilot BIOS: pilot.bin
  - c. Flash table: Flash.ini
- When all the fields are correct, click OK.
7. From the FILE menu select “Load Flash Image...”



- a. Select the proper file (of the type WINDMAIN\_nnn.bin) and click Open.
8. A pane with a progress bar should appear showing progress of the upload. If a dialog box appears indicating “No Rabbit Processor Detected” check that the programming cable is properly connected, the controller is powered up, and you have selected the proper serial port and try again.
9. When the firmware upload is complete, disconnect the programming cable from the PLC, cycle power to the turbine and it should restart. Check for the proper version of the firmware using the ERI software interface.