RAIN BIRD®

IQ™ v2.0 Central Control System
NCC Configurator Instructions

December 3, 2010

Contents

What is the NCC Configurator?

- The NCC Configurator Utility is required to configure the NCC Cartridge IQ Port communication settings for IQ Direct and Server Satellite Controllers utilizing the following communication options:

  – NCC-RS External Modem
  – NCC-GP GPRS/Cellular
  – NCC-EN Ethernet
  – NCC-WF Wi-Fi

- The NCC Configurator Utility is not required to configure IQ Client Satellites or IQ Direct and Server Satellites utilizing the following communication options:

  – NCC-RS IQSSRADIO
  – NCC-RS Direct-Connect Cable
  – NCC-PH Phone

- The NCC Configurator Utility has been designed to run on a desktop, laptop or inexpensive Netbook computer
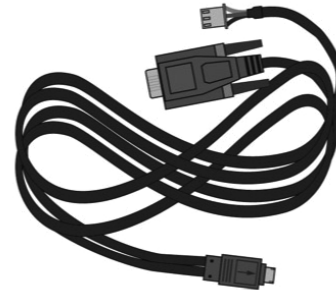
What you will need…

- Computer (IQ desktop or a separate laptop)

- USB-to-Serial Adapter (required only if your computer does not have a Serial Port)

  - recommended model IOGEAR GUC232A
    http://www.iogear.com/product/GUC232A/

- IQ Software CD v2.2 or newer

- IQNCCNMC Null-Modem Cable (Beige Cable shipped with the IQ Software Package

- IQNCMY "Y" Cable (Black "Y" cable shipped with IQNCC Network Communication Cartridge)

- Construction or As-Built Drawing of site IQ System showing Satellite Controller numbers

Null-Modem Cable

Y-Cable

Install the NCC Configurator on your computer

The NCC Configurator Utility is automatically installed on your computer when you install the IQ Software (keycode activation is not required for this utility)

1 Insert the CD into the computer CD drive

2 If you do not have a CD drive, copy the IQ CD files onto a flash drive

3 If the install program does not start automatically, double-click on the Setup.exe file

4 Follow the prompts on the screen to install the IQ Software

5 When the IQ Software is installed double-click on the Rain Bird NCC Configurator icon on your computer Desktop to launch the Utility
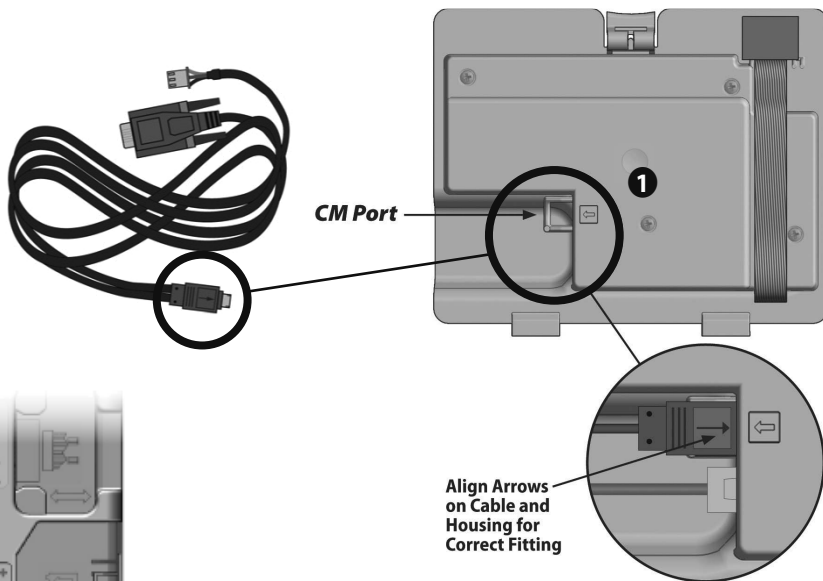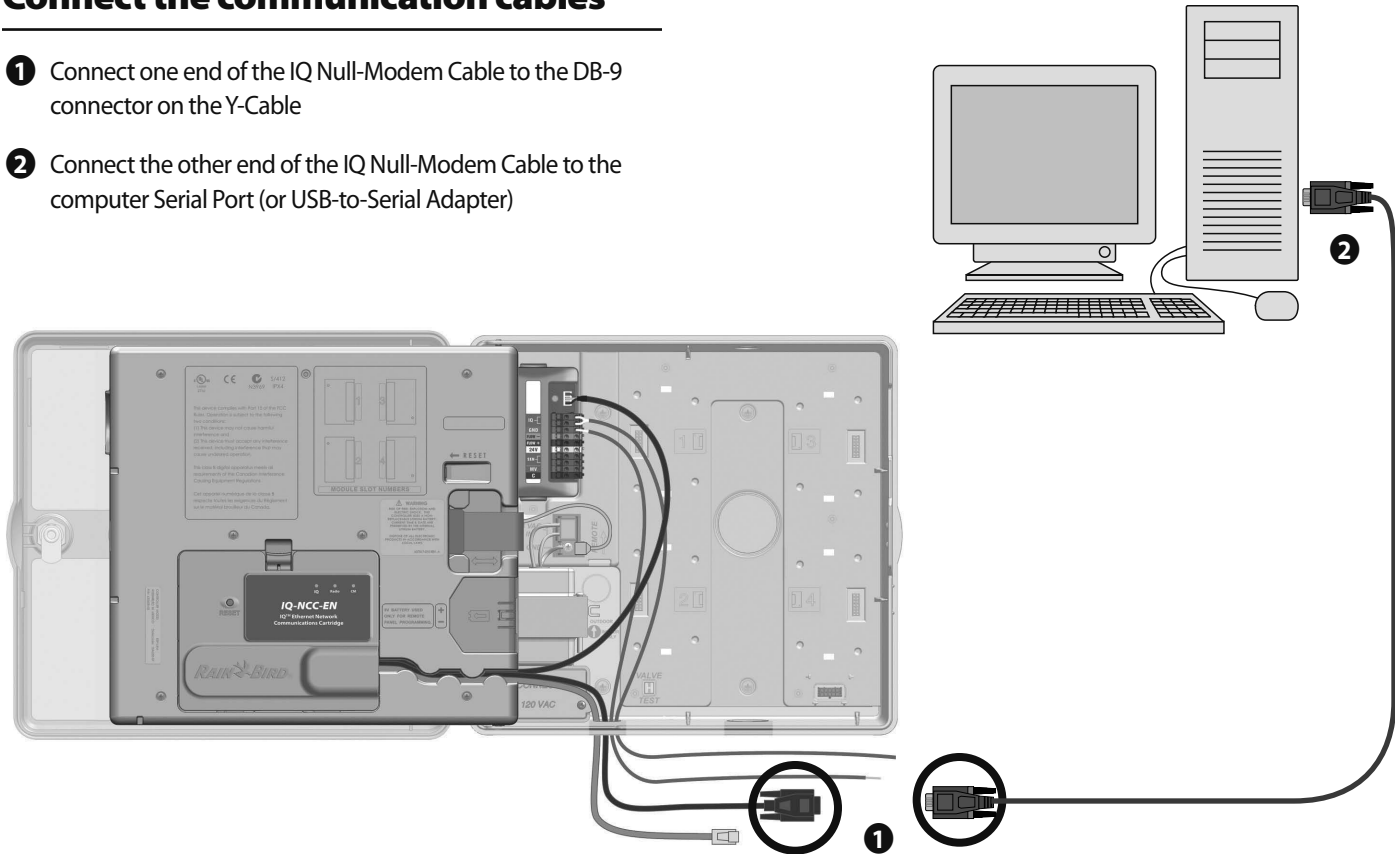
Rain Bird NCC Configurator

Connect the communication cables

❶ Connect the Y-Cable to the NCC Cartridge CM Port

❷ Install the NCC Cartridge into the Controller

CM Port

❶

Align Arrows on Cable and Housing for Correct Fitting

IQ-NCC-RS
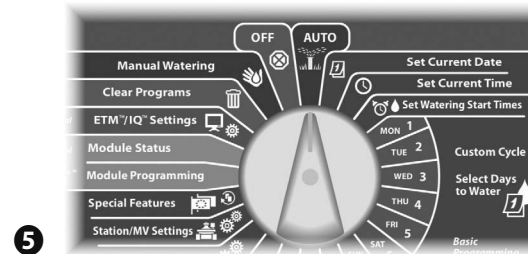IQ™ RS232 Network
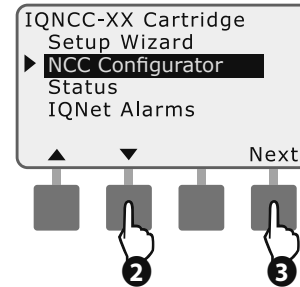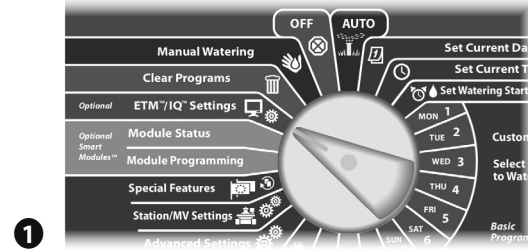Communications Cartridge

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❷

Connect the communication cables

1 Connect one end of the IQ Null-Modem Cable to the DB-9 connector on the Y-Cable

2 Connect the other end of the IQ Null-Modem Cable to the computer Serial Port (or USB-to-Serial Adapter)
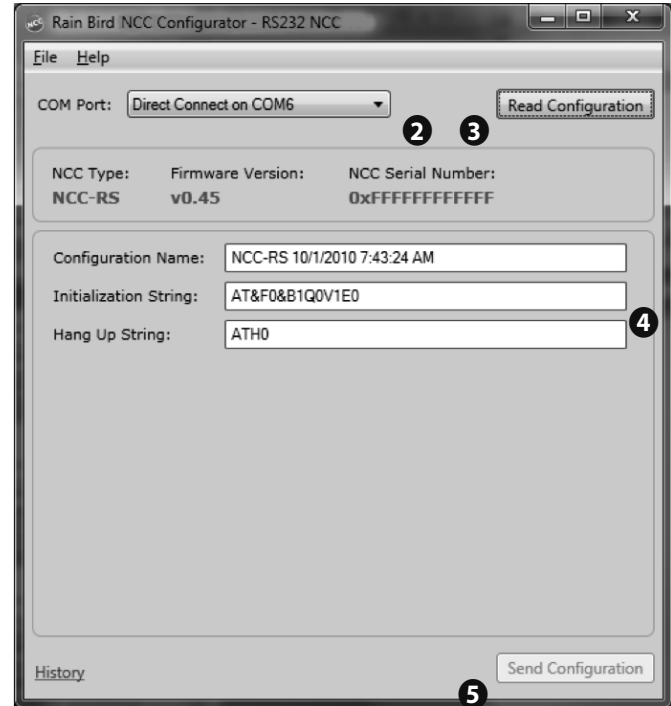
Set the NCC to NCC Configurator Mode

① Turn the IQ Satellite dial to the **IQ Settings** position

② Use the down arrow button to highlight **NCC Configurator** from the menu then press Next

③ After confirming the communication cables are installed correctly press **Next**

④ Press the **ON** button to activate IQ Software Config Mode

⑤ To cancel IQ Software Config Mode turn IQ Satellite dial to **Auto**


```
IQNCC-XX Cartridge
 Setup Wizard
▶ NCC Configurator
 Status
 IQNet Alarms

 ▲      ▼            Next
```

Using the NCC Configurator

1 Launch the **NCC Configurator Utility** on the computer

2 Click the drop-down arrow to select the computer **COM Port** number to which the Null Modem Cable is connected

3 Click on the **Read Configuration** button to retrieve the current communication configuration settings from the NCC Cartridge

- The configuration setting fields will be blank or contain default values if the NCC Cartridge has never been configured previously

4 Enter/edit the configuration settings

- Configuration Name: Specific name to identify this satellite in the configuration History log
- Configuration fields will be specific to the type of cartridge connected

5 Click **Send Configuration button** to send configuration to the NCC cartridge

NCC-PH Configuration

1 The NCC-PH Phone Cartridge does not require configuration with the NCC Configurator

2 For IQ Software initiated communication, enter the phone number for the IQ Satellite in the IQ Software. The IQ Satellite will answer the call from the IQ Software automatically.

3 For IQ Satellite Call-in (satellite initiated communication mode option available with the IQ Advanced Communication Feature Pack), you will need to initiate communication to the satellite from the IQ software one time to send the Call-in settings before the satellite will be able to Call-in:

A Connect the NCC-PH Cartridge to the phone line.

B In the IQ Software, Auto Contacts button, configure the satellite for IQ Call-in.

C Manually synchronize the satellite from the IQ Software one time making sure the satellite answers this call.

D Once the satellite is synchronized it will call-in to the IQ computer to receive daily programming and post logs.

NCC-GP Configuration

- **IP Address:** The address is retrieved automatically from the installed SIM Card

- **Port Number:** Default Port is 50005

- **Access Point:** This information is provided by your GPRS/Cellular Service Provider (AT&T Access Point = rainbird.com)

- **User Name:** The user name for your GPRS/Cellular Service Provider Access Point account (if required)

- **Password:** Password for your GPRS/Cellular Service Provider Access Point account (if required)

- **Frequency Band:** Use drop down menu to make selection

- **IMEI Number:** The number is retrieved automatically from the internal GPRS modem

Note: User name & password is not required for the AT&T rainbird.com access point
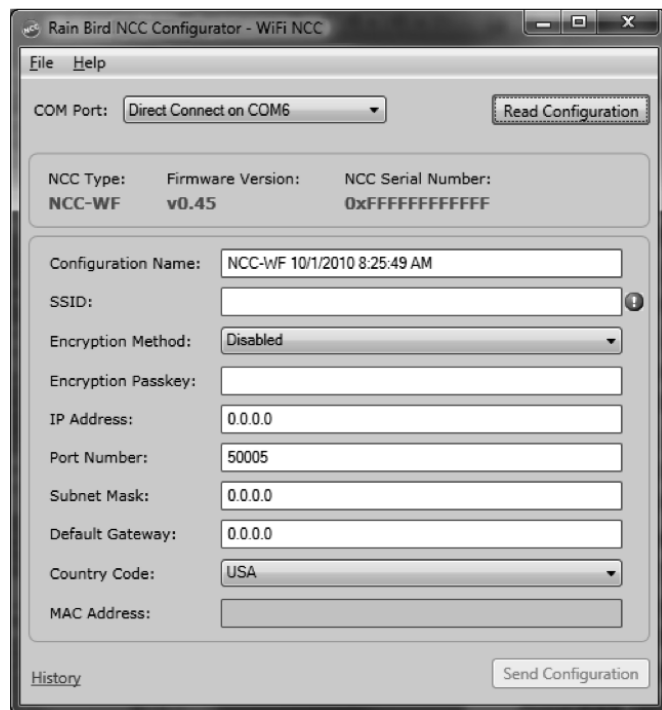
NCC-EN Configuration

- **IP Address:** The network address assigned to this cartridge (assigned by your Network Administrator)

- **Port Number:** Default Port is 50005

- **Subnet Mask:** The Subnet Mask address (provided by your Network Administrator)

- **Default Gateway:** The Default Gateway Address (provided by your Network Administrator)

- **MAC Address:** The identification number is retrieved automatically from the internal Ethernet device

NCC-WF Configuration

- **SSID:** Network Identification (provided by your Network Administrator)

- **Encryption Method:** WPA or WPA2 (set by your Network Administrator)

- **Encryption Passkey:** Passkey (provided by your Network Administrator)

- **IP Address:** The Network Address assigned to this cartridge (assigned by your Network Administrator)

- **Port Number:** Default Port is 50005

- **Netmask:** The Netmask Address (provided by your Network Administrator)

- **Default Gateway:** The Gateway Address (provided by your Network Administrator)

- **Country Code:** Select country or region from the list

- **MAC Address:** This Identification Number is retrieved automatically from the internal WiFi device
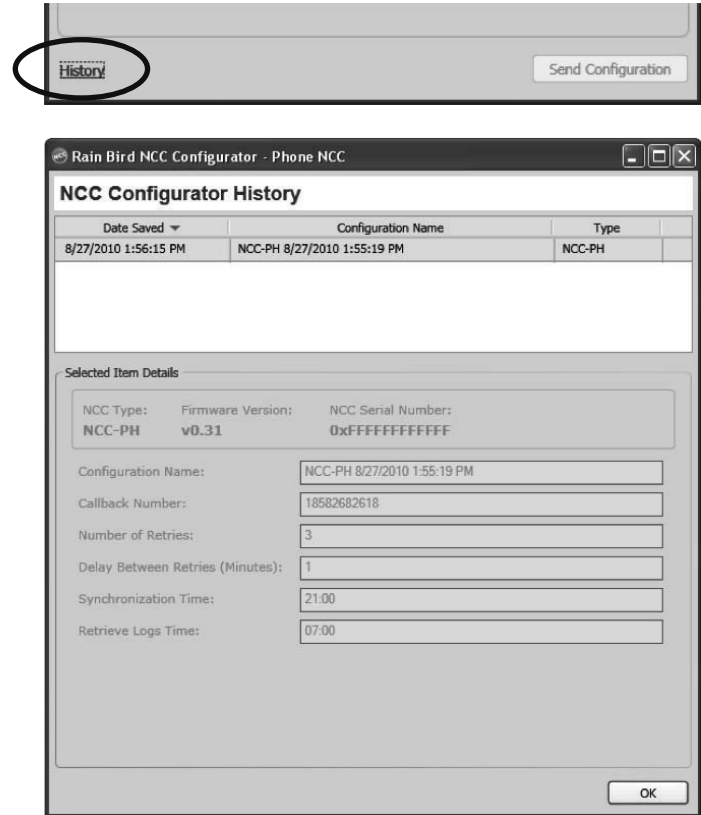
NCC-RS Configuration

- NCC-RS Configuration not required for Direct-Connect Cable or IQRSSRADIO communication mode

- NCC-RS Configuration may be for External Modem communication mode

- **Initialization String:** Required for some external modems (consult the external modem manual for required settings)

- **Hang Up String:** Required for some external modems (consult the external modem manual for required settings)

NCC Configuration History

- Click on the **History** link on the bottom of the NCC Configurator dialog box to retrieve a log of the previously sent NCC Cartridge Configuration settings

  – Log is labeled with the Configuration Name entered in specific NCC Cartridge configuration screen

  – Each log is date and time stamped

  – Click on a log entry to view the configuration sent to that NCC cartridge

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