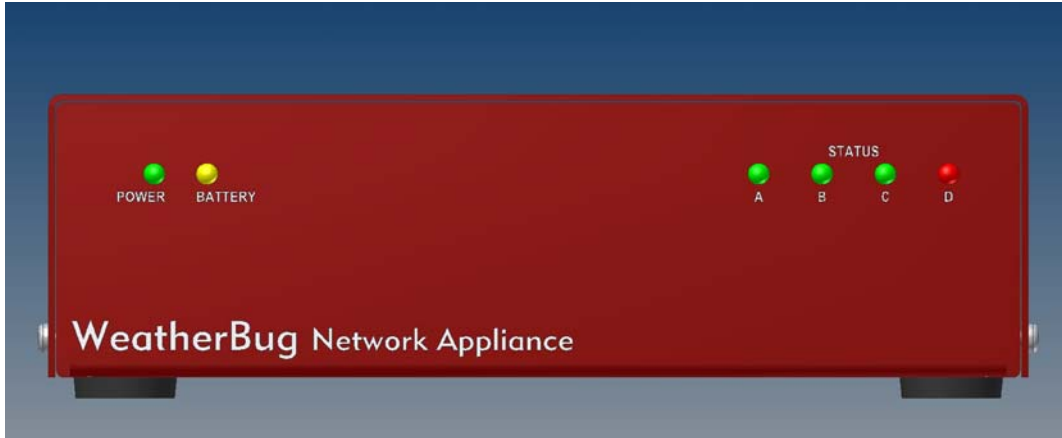




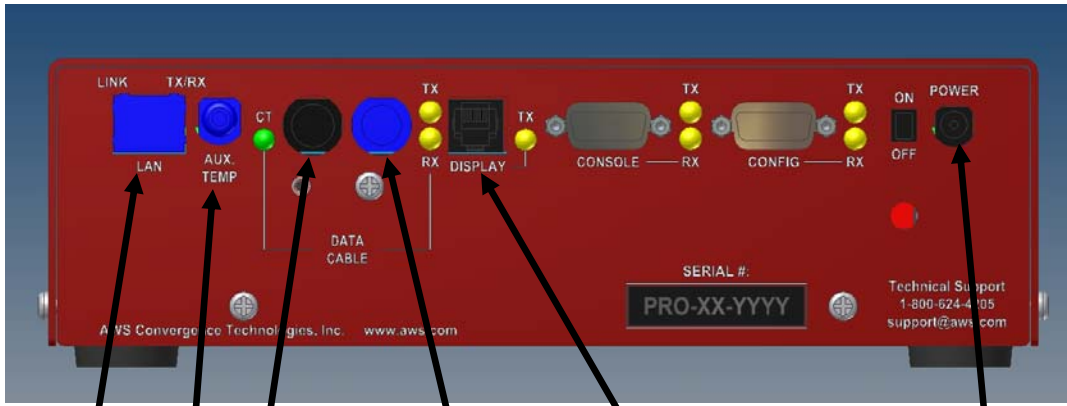
# WeatherBug®

## RedBugBox Upgrade

### FRONT OF REDBUGBOX



### BACK OF REDBUGBOX



Local Area Network

Optional Auxiliary Temp Sensor

4 Pin Data Cable – WEATHER ONLY

8 Pin Data Cable – LIGHTNING ONLY

Digital Display

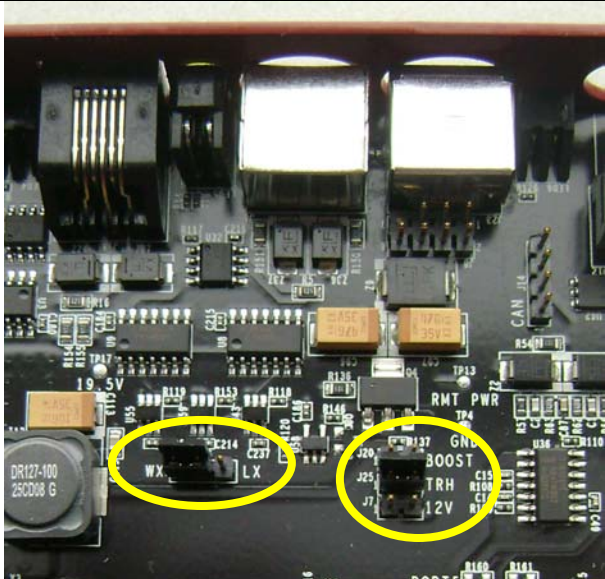
RBB Power Supply



## RedBugBox Upgrade

### Connecting the Indoor Weather Station Components

1. Open the RBB by removing the 2 screws on each side of the side of the box. Lift off the lid to expose the circuit board. Touch something metal to remove any static charge from your body; this will prevent damage to the board. Verify the appropriate jumper setting for your application:

Installation	Jumper Location	Illustration
Weather Station <b>**NO LIGHTNING EQUIPMENT</b>	WX TRH	

2. If the jumper is not in the appropriate location, relocate by pulling up on the jumper, moving to the appropriate pins, and pushing down gently.

#### **WARNING!**

**Incorrectly assigning jumpers could result in damage to the equipment.  
Please verify correct alignment before powering unit.**

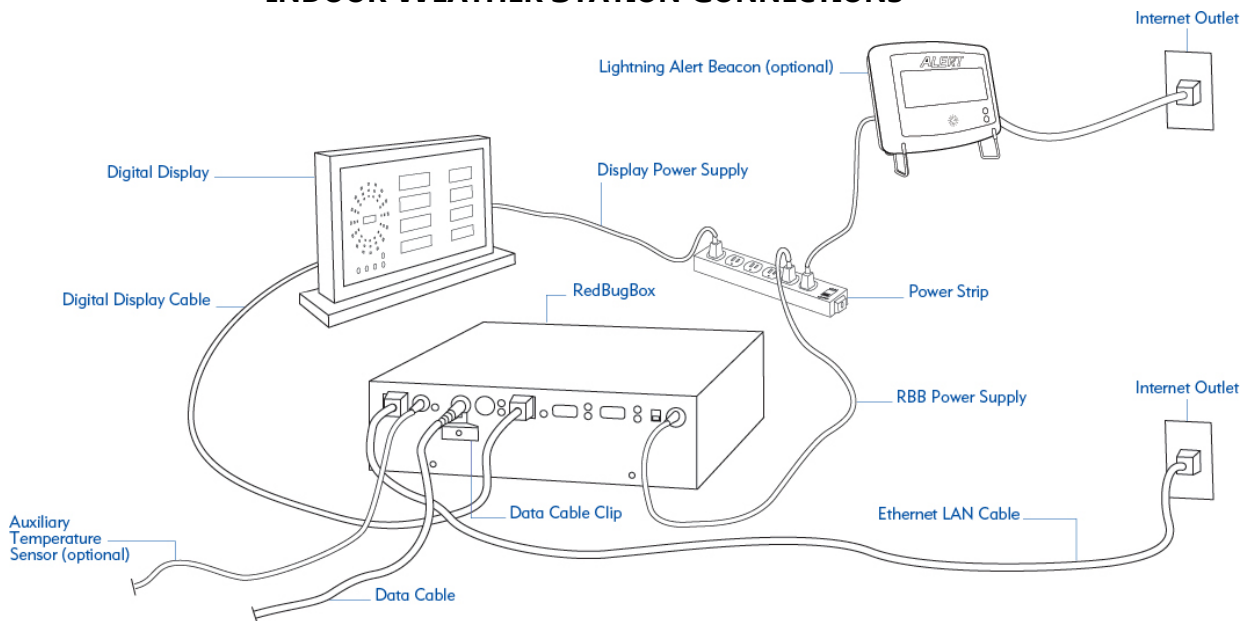
3. Close the RBB by replacing the lid and the 2 screws on each side of the RBB.
4. Connect the Power Supply to the RedBugBox (RBB) and ensure that power is in OFF position.
5. Find the end of Data Cable coming from your outdoor sensors. Place the connector so that the arrow is on top and connect it to the back of the RBB, under the "Data Cable" label, being sure to match the appropriate 4 Pin or 8 Pin connection.



## RedBugBox Upgrade

6. If applicable, connect the optional Auxiliary Temperature Sensor to the RBB.
7. For the Digital Display, connect the other end of 25-foot Display Cable cord (“telephone line”) to the Digital Display.
8. Using the supplied Ethernet LAN Cable, plug the RBB into your Local Area Network (LAN) or Internet Connection.
9. Plug the RBB and Digital Display Power Supplies into the Power Strip.

### INDOOR WEATHER STATION CONNECTIONS





## RedBugBox Upgrade

### System Start-up

Assuming that your site network is configured with a Dynamic Host Configuration Protocol (DHCP) where you are automatically assigned an IP address, your station is ready to be turned on. If your site network is currently using DHCP with a Proxy or Static IP addresses, please refer to the appropriate section below.

#### ***DHCP Network***

Your RBB should be connected and ready to be turned on (before powering any component, check to ensure that all connections are correct).

1. Turn on the Power Strip.
2. Using the “On/Off” switch, turn on the RBB.
3. Five quick flashes of the status lights on the right hand side of the front of the RBB will occur.
4. Verify that the Green LED lights on the back of the box, next to the “LAN” connection, are illuminated or flashing to indicate a live internet connection.
5. During the next minute the lights A, B, and C will come on in sequence.
6. Call WeatherBug Weather Station Technical Support at 800-624-4205 to confirm that data is being received and to ensure proper calibration.

#### ***DHCP Network with Proxy Server***

1. Using an existing computer on the site’s network to determine the Proxy Settings:
  - a. Open Internet Explorer web browser.
  - b. Select Tools from the Internet Explorer menu.
  - c. Select Internet Options.
  - d. Select Connections Tab.
  - e. Select LAN Settings.
  - f. Note the Proxy settings that appear in the Proxy Server Box at the bottom of the screen.

**NOTE:** A-F above are specifically for PC based Internet Explorer browser.  
Consult your browser’s documentation to follow a similar procedure.

2. Using the “On/Off” switch, turn on the Power to the RBB.
3. Five quick flashes of the status lights on the right hand side of the front of the RBB will occur.



## RedBugBox Upgrade

4. Verify that the Green LED lights on the back of box, next to the “LAN” connection, are illuminated or flashing to indicate a live internet connection.
5. Using another PC computer on the network (same subnet), download the latest WeatherBug Network Appliance Config program from <http://download.aws.com/> and save it to the computer desktop.

**NOTE:** If your current network setting does not allow downloads of .EXE files please download either the .ZIP file or the .EX file. If the .EX file is downloaded, rename the file extension to .EXE before using the file.

6. Double click on the WeatherBug Network Appliance Config program.
7. Using the WeatherBug Network Appliance Config program, select Search to seek out all BugBoxes on the network.

**NOTE:** If the WeatherBug Network Appliance Config program was unable to find your RBB select the Options button, change the number of seconds from 5 to 50, and select OK. Select Search again from the WeatherBug Network Appliance Config program.

WeatherBug Network Appliance Config

MAC	SN#	DHCP	IP	Mask	Gateway	PDNS	SDNS
-----	-----	------	----	------	---------	------	------

Station: None  
 Obtain an IP address automatically  
 Obtain DNS server address automatically

Version: NA

IP address: [ ] [ ] [ ] [ ]  
Mask: [ ] [ ] [ ] [ ]  
Gateway: [ ] [ ] [ ] [ ]  
Primary DNS: [ ] [ ] [ ] [ ]  
Secondary DNS: [ ] [ ] [ ] [ ]

HTTP Proxy: [ ] : [ ]  
User name: [ ]  
Password: [ ]

MCU Serial #: [ ]

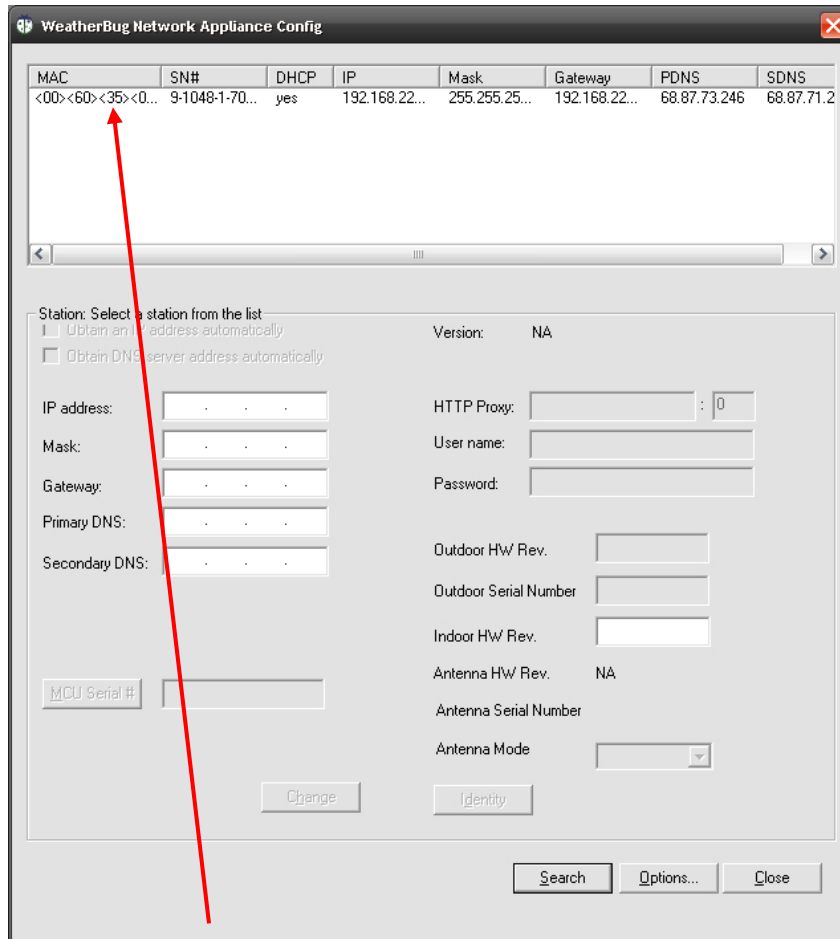
Outdoor HW Rev. [ ]  
Outdoor Serial Number [ ]  
Indoor HW Rev. [ ]  
Antenna HW Rev. NA  
Antenna Serial Number [ ]  
Antenna Mode [ ]

Change Identify Search Options... Close



## RedBugBox Upgrade

8. Select the MAC address for the RBB.



**NOTE:** If DHCP is enabled on your network, the RBB may appear with another IP address.

9. Verify that the “Obtain an IP address automatically” and “Obtain DNS server address automatically” checkboxes are selected.
10. Using the boxes on the right side of the screen, type in the Proxy information obtained in Step 1.

**NOTE:** Proxy address can be set using standard IP format (ex. 209.249.20.202) or DNS proxy. DNS proxy must be less than 75 characters and contain at least one period/dot.



## RedBugBox Upgrade

11. If your proxy requires a login, enter the User name and Password in the appropriate boxes.

**NOTE:** The User name is limited to 50 characters and Password fields is limited to 20 characters. If no Username and Password are required leave fields blank.

12. Select the Change button from the center hand portion of the WeatherBug Network Appliance Config program.

**NOTE:** After the Change button is selected the box will automatically restart and will take a few minutes to reappear on the network.

13. After approximately one minute, the A, B, and C LEDs should be solid green (no flashing).

14. Call WeatherBug Weather Station Technical Support at 800-624-4205 to confirm that data is being received and to ensure proper calibration.

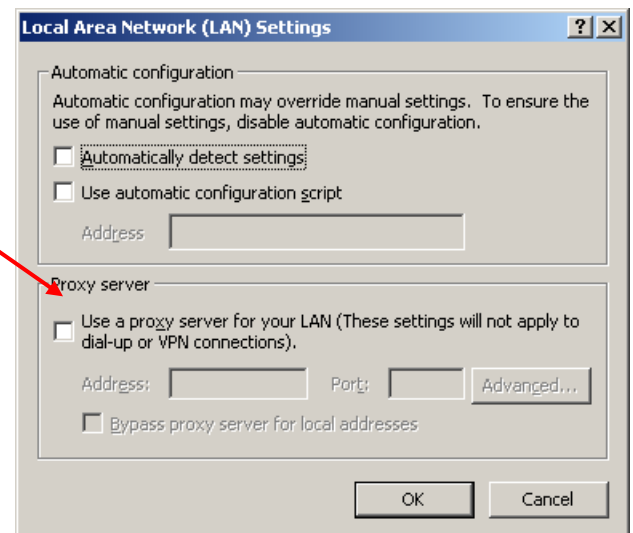
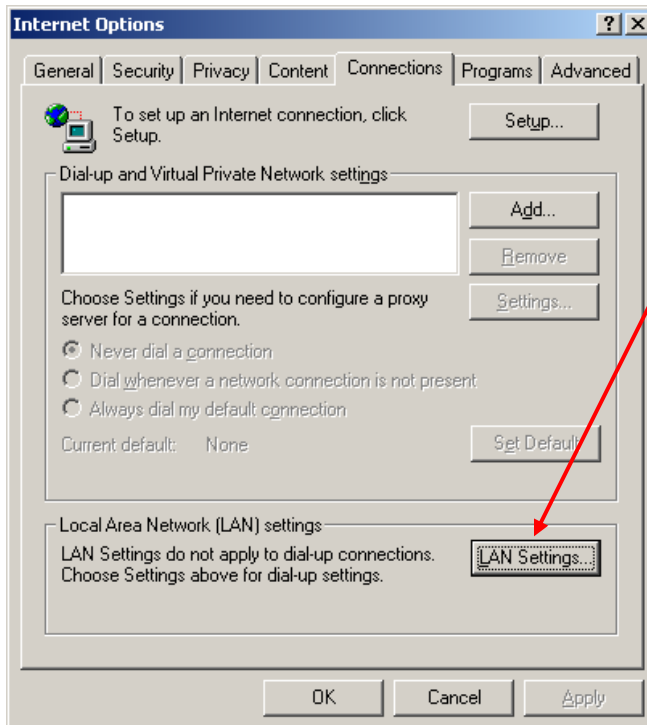


## RedBugBox Upgrade

### Static IP Network

1. Talk to your Network Administrator to determine the following for the RedBugBox:
  - IP Address
  - Subnet Mask
  - Default Gateway
  - Primary DNS
  - Secondary DNS
  - Proxy Settings
2. Determine if Proxy Settings are necessary:
  - a. Open Internet Explorer web browser.
  - b. Select Tools from the Internet Explorer menu.
  - c. Select Internet Options.
  - d. Select Connections Tab.
  - e. Select LAN Settings.
  - f. Note any Proxy settings that appear in the Proxy Server Box at the bottom of the screen.

**NOTE:** A-F above are specifically for PC based Internet Explorer browser.  
Consult your browser's documentation to follow a similar procedure.





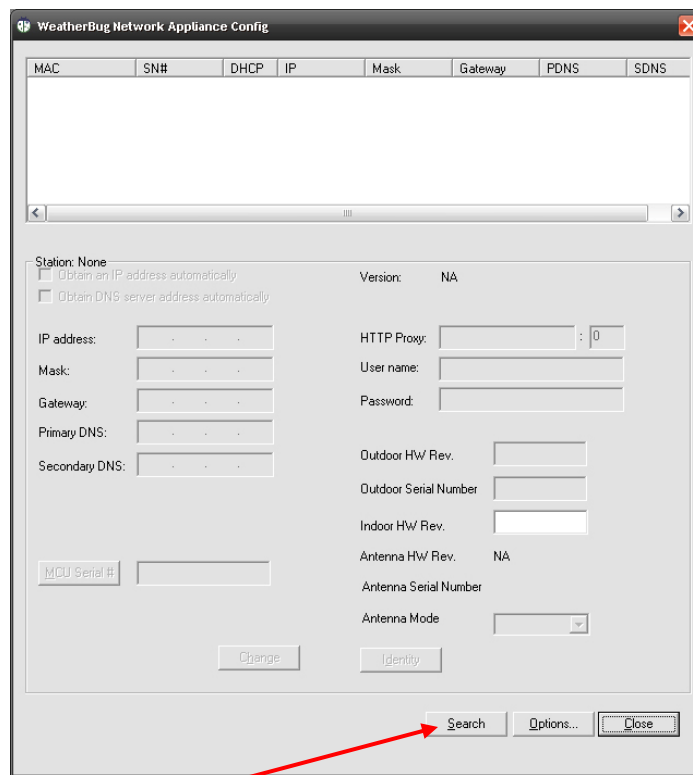


## RedBugBox Upgrade

3. Using the “On/Off?” switch, turn on the Power to the RBB.
4. Five quick flashes of the status lights on the right hand side of the front of the RBB will occur.
5. Verify that the Green LED lights on the back of the box, next to the “LAN” connection, are illuminated or flashing to indicate a live internet connection.
6. Using another PC computer on the network (same subnet), download the latest WeatherBug Network Appliance Config program from <http://download.aws.com/> and save it to the computer desktop.

**NOTE:** If your current network setting does not allow downloads of .EXE files please download either the .ZIP file or the .EX file. If the .EX file is downloaded, rename the file extension to .EXE before starting/opening the file.

7. Double click on the WeatherBug Network Appliance Config program.

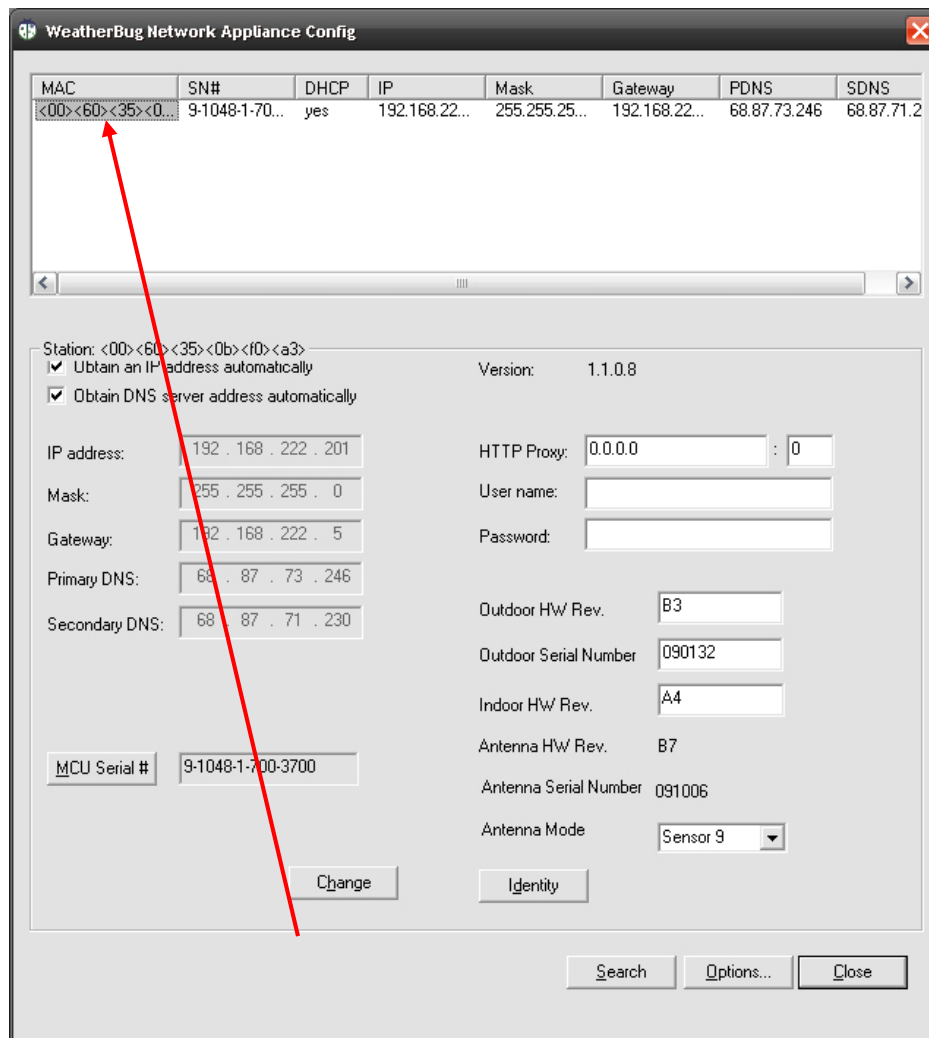




## RedBugBox Upgrade

- Using the WeatherBug Network Appliance Config program, select Search to seek out all BugBoxes on the network.

**NOTE:** If the WeatherBug Network Appliance Config program was unable to find your RBB select the Options button, change the number of seconds from 5 to 50, and select OK. Select Search again from the WeatherBug Network Appliance Config program.



- Select the MAC address for the RBB with the IP address of 192.168.237.227 (the default IP address for the RBB).

**NOTE:** If DHCP is enabled on your network, the RBB may appear with another IP address.



## RedBugBox Upgrade

10. Using the boxes at the bottom of the screen, type in the following obtained in Steps 1 and 2:
  - IP Address
  - Mask
  - Gateway
  - Primary DNS
  - Secondary DNS
  - Proxy (if applicable)
  - Proxy User name (if applicable) – **NOTE:** Limit of 50 characters
  - Proxy Password (if applicable) – **NOTE:** Limit of 20 characters
  
11. Select the Change button from the lower center portion of the WeatherBug Network Appliance Config program.

**NOTE:** After the Change button is selected the box will automatically restart and will take a moment to reappear on the network.
  
12. After a few minutes, the A, B, and C LEDs should be solid green (no flashing).
  
13. Call WeatherBug Weather Station Technical Support at 800-624-4205 to confirm that data is being received and to ensure proper calibration.

### **WeatherBug Technical Support:**

800-624-4205

[support@aws.com](mailto:support@aws.com)

Monday - Thursday -- 8:00am-7:00pm EST

Friday -- 8:00am-5:00pm EST