

How do I configure the wireless printer without a network cable and install the printer driver in Windows?

NOTE: For successful wireless setup, you MUST know your network security settings.

STEP I: Gather the wireless network settings of your wireless access point or wireless router

The network settings information for your network can be found on the network configuration sheet of your wireless access point or wireless router. Please contact the manufacturer of your wireless access point or wireless router or refer to the user's guide for your wireless access point or wireless router for instructions on printing a network configuration sheet.

This information includes:

- A. SSID (Service Set ID or Network Name). Your access point or router is identified by an SSID or network name.
- B. Encryption Method required by your access point or router. For example, Open System, Shared Key, WPA-PSK, LEAP, etc.
- C. If you are using WEP, you will need the WEP KEY (in HEX key format). For example, a 64-bit key uses 10 digits of hexadecimal data: i.e. 71f2234aba, while a 128-bit key uses 26 digits of hexadecimal data: i.e. 71f2234ab56cd709e5412aa3ba.
- D. If you are using WPA-PSK (TKIP), you will need the PASSPHRASE. For routers that use a Pre-Shared Key (PSK), the PASSPHRASE is more than 7 characters and less than 64 characters in length.
- E. If you are using MAC (Media Access Control) Filtering/MAC Address Access Control on your router, add the printer's MAC Address to the table. The MAC Address is available on the Wireless Settings Page. Make sure the Node Type is Brother NC-7400w.

NOTE: If you do not have this network settings information, or cannot find this information, do not proceed with the wireless setup. Contact the manufacturer of your wireless access point or wireless router for this network information.

STEP II: Perform a factory reset on the printer

1. Check that the front cover of the printer is closed. Turn OFF the power switch on the right side of the printer.
2. Hold down the GO button as you turn on the power switch. The GO button is located on the top left side of the printer below the Toner, Drum, and Error LEDs.
3. Keep the GO button pressed down until the Toner, Drum, and Error LEDs light up. Release the GO button. Make sure that all the LEDs turn off.
4. Press the GO button 8 times. The Ready LED (blue light) will flash while the printer is reset. After the printer is reset the Ready LED will be lit.

STEP III: Perform a factory reset on the printer network card

1. Turn OFF the power switch on the right side of the printer.

2. Hold down the GO button as you turn on the power switch. The GO button is located on the top left side of the printer below the Toner, Drum, and Error LEDs.
3. Keep the GO button pressed down until the Toner, Drum, and Error LEDs light up. Release the GO button. Make sure that all the LEDs turn off.
4. Press the GO button 7 times with 5 seconds. The network card is now reset.

STEP IV: Enable the Wireless Network Card

With the printer power turned on and the printer Ready, hold down the GO button for about 15 seconds. Release the GO button when the printer prints a Network Configuration page.

NOTE: The text to the right of IEEE 802.11b/g in the Node Type section will indicate that the Wireless network card is active or inactive. Active means that the wireless setting is enabled and Inactive means that the wireless setting is disabled.

```
<<NETWORK CONFIGURATION>>
<Node Type>                Brother NC-7400w, IEEE 802.11b/g (Active)
<Node Firmware Ver.>       Firmware Ver.1.03 (07.08.31)
<Ethernet Address>         00-1c-26-80-ea-18
<Node name>                 BRW001C26D0EA18
```

STEP V: Print out the Printer Settings pages to determine the IP Address

1. Make sure the printer is powered on and the front cover is closed. The printer should be in Ready mode with the blue Ready light on steady.
2. Wait approximately 1 minute, and then press the GO button 3 times to print the Printer Settings page. 3 pages should print out. If 4 pages print out, please go to Step III and reset the network card again.
3. Verify the IP Address of the printer is a 169.254.x.x number (Figure 1) and that the Comm. Mode is Ad-hoc and the Name (SSID) is SETUP (Figure 2).

PRINTER SETTINGS(3/3)

HL-2170W series

SER.NO:K7J130535

```
<<NETWORK CONFIGURATION>>

<Mode Type> Brother HL-2170W, IEEE 802.11b/g (Active)
<Mode Firmware Ver.> Firmware Ver.1.03 (07.08.31)
<Ethernet Address> 00-1c-26-d0-a8-18
<Mode name> B8W001C26D0A8

<Active services> B8W008077C7E8A3
                  BINARY_P1
                  TEXT_P1
                  POSTSCRIPT_P1
                  PCL_P1
                  B8W008077C7E8A3_AT

<Protocols>
TCP/IP      Enabled
NetBIOS/IP  Enabled
LegacyAuth  Enabled
TELNET      Enabled
LPD         Enabled
IPP          Enabled
POP3/SMTP   Enabled
FTP         Enabled
LPR         Enabled
IPv6        Disabled
APIPA       Enabled
WebBasedManagement Enabled
SNMP        Enabled
Raw Port    Enabled
WebServices Enabled
FTP         Enabled
SMB         Enabled
LLTD        Disabled

<IPv Settings>
IP Address   169.254.79.186 (via APIPA)
Subnet Mask  255.255.0.0
IP Gateway   0.0.0.0
IP Config    AUTO
Boot Tries   3
IP Filter    Disabled

<DNS Settings>
DNS Timeout (sec) 5
DNS Address Config AUTO
Primary DNS Server 0.0.0.0
Secondary DNS Server 0.0.0.0

<NetBIOS Name> B8W001C26D0A8
<WINS Address Config> AUTO
<Primary WINS Server> 0.0.0.0
<Secondary WINS Server> 0.0.0.0

<Printer Mail Address> b8w008077c7e8a3@example.com
<SMTP Server> 0.0.0.0
<SMTP Port> 25
<POP3 Server> 0.0.0.0
<POP3 Port> 110

<DNS Service Name> Brother HL-2170W series
<WebServices Name> Brother HL-2170W series [001c26d0a8]

<Comm. Mode> Ad-hoc
<Name (SSID)> SETUP
<Authentication Mode> Open System
<Encryption Mode> NONE
<Wireless Link Status> Link OK, 11b(11Mbps), Receiving Mail = 3, Operating Ch = 11
<Power Mode>

<Network Statistics>
Packets Received 3
Bytes Received 216
Packets Transmitted 30
Bytes Transmitted 11520

<Wireless Statistics>
RX Frames Received OK 0
RX Frames Error 0
TX Frames Transmitted OK 30
TX Frames Error 0
```

Figure 1

Figure 2

STEP VI: Communicate to the printer WITHOUT a network cable and configure the wireless settings

To communicate with the printer in Ad-hoc mode, the wireless computer needs to join the printer's SETUP network.

NOTE: If you are using a third party utility to manage your wireless connections, contact the manufacturer for assistance with the following steps.

If you are using Windows to manage your wireless connections, use the following steps.

Windows Vista/Windows 7

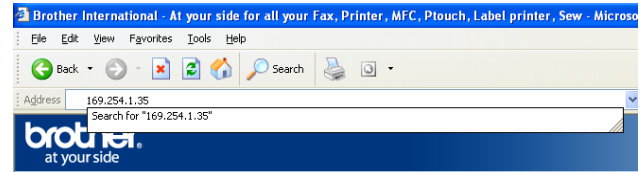
1. Click WINDOWS/START and then Connect To.
2. A list of currently available Networks, both wired and wireless, will appear. In the list click on the name of the Brother Ad-hoc network. The default name is SETUP.
3. Click Connect. If you receive a warning that the network is unsecured, click Connect Anyway.
4. You will receive a message stating: Successfully connected to Setup. Check Save This Network and click Close.

Windows XP

1. Click Start and then Control Panel.
2. Click the Network Connections icon.
3. Right mouse click Wireless Network Connection. Left mouse click View Available Wireless Networks.
4. In the list, click on the name of the Brother Ad-hoc network. The default name is SETUP. Select SETUP and check the Allow me to connect... check box. Click the Connect button.

Configure the Wireless Network Card

1. If the IP Address of the computer and the IP Address of the printer are in the same range, open a web browser.
2. Enter the IP Address of the printer into the web browser screen and press ENTER. The Brother Web Management screen will appear. Go to 3.



NOTE: If the Brother Web Management screen doesn't appear, verify your PC is configured with the same network information as the printer.

Check the IP Address of your computer.

To determine the computer's IP address:

Windows Vista/Windows 7

a. Click WINDOWS/START. Type CMD on the Start Search line and press enter. A black DOS screen will appear.

b. Type IPCONFIG /all and press enter.

c. You may see more than one Local Connection listed. Look for a Local Area Connection with a description of the network card indicating WIRELESS LAN ADAPTER. WIRELESS NETWORK CONNECTION

d. Locate the IP Address line (Autoconfiguration Ipv4 Address). This number should be similar to the IP Address of the printer. The printer's IP Address can be found on the Settings Pages you printed out previously. The first two sets of numbers should be the same.

For example:

Computer IP Address is: 169.254.x.x

Printer IP Address is: 169.254.x.x

Windows XP

a. Click on START, and select RUN. Type in CMD and press ENTER. A black DOS screen will appear.

b. Type IPCONFIG /all and press enter.

c. You may see more than one Local Connection listed. Look for a Local Area Connection with a description of the network card indicating WIRELESS.

d. Locate the IP Address. This number should be similar to the IP Address of the printer. The printer's IP Address can be found on the Settings Pages you printed out previously. The first two sets of numbers should be the same.

For example:

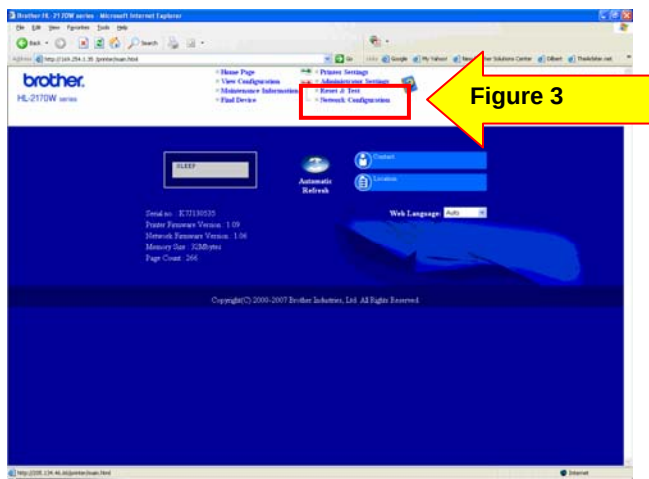
Computer IP Address is: 169.254.x.x

Printer IP Address is: 169.254.x.x

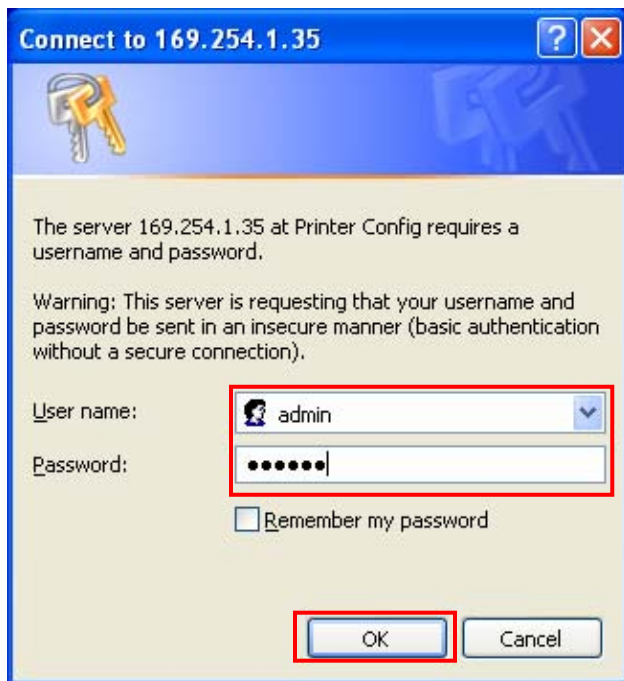
NOTE: If these numbers are not similar (not in the same range), return to Step III to perform a factory reset on the printer network card. After the network card is reset, wait one minute, and then press the GO button 3 times to print the settings pages. Review the last page for the printer IP address

again. If the printer IP address is not similar to the computer IP address, do NOT proceed with wireless setup. Call Brother Customer Service at 1-877-BROTHER (1-877-276-8437) for assistance.

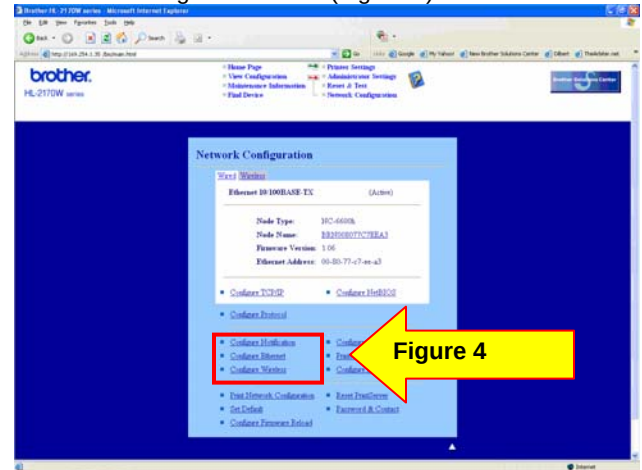
- Click on Network Configuration near the top of the screen. (Figure 3).



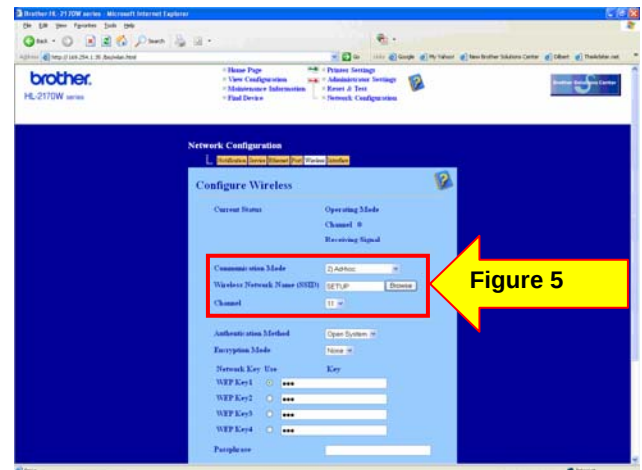
- A login screen will appear. Enter the following:
Username: admin
Password: access.
Then click OK.



- Click Configure Wireless (Figure 4).



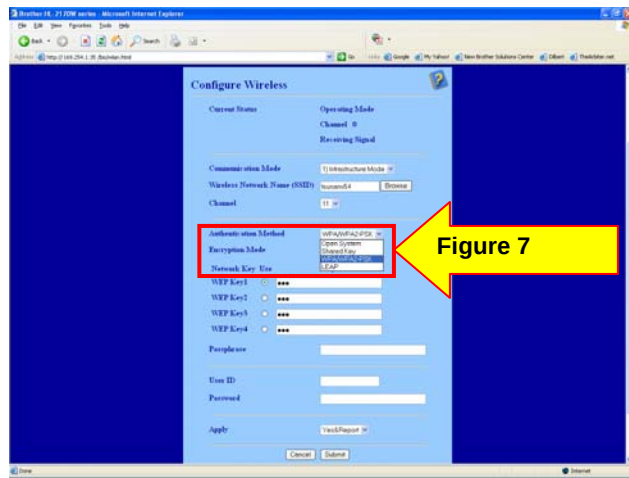
- Change the Communication Mode to Infrastructure (Figure 5).
- Click BROWSE next to the Wireless Network Name (SSID) (Figure 5). For the SSID, refer to the network settings information gathered in Step 1.



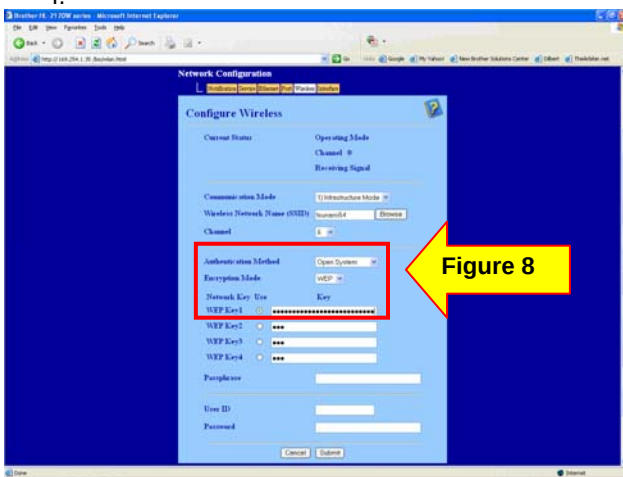
- Select the appropriate Name (SSID) from the list and click OK (Figure 6). Refer to the network settings information gathered in Step 1.



- Leave the Channel setting as is.
- Select the appropriate Authentication Method from the drop down list (Figure 7). Refer to the network settings information gathered in Step 1.

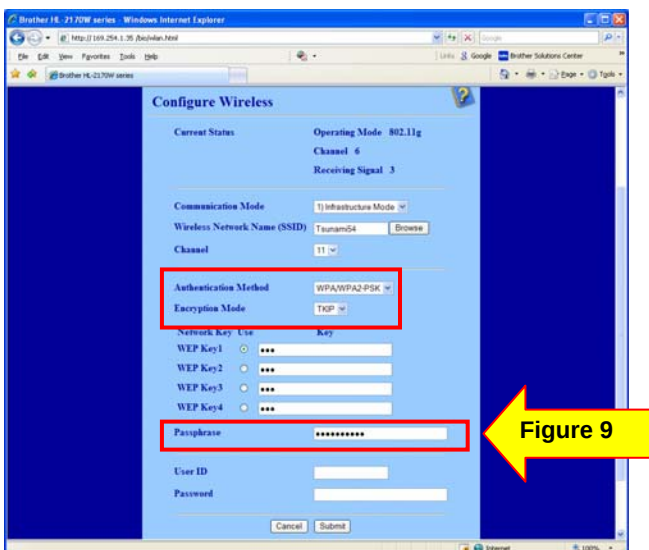


11. Select the appropriate Encryption Method (Figure 8). Refer to the network settings information gathered in Step I.

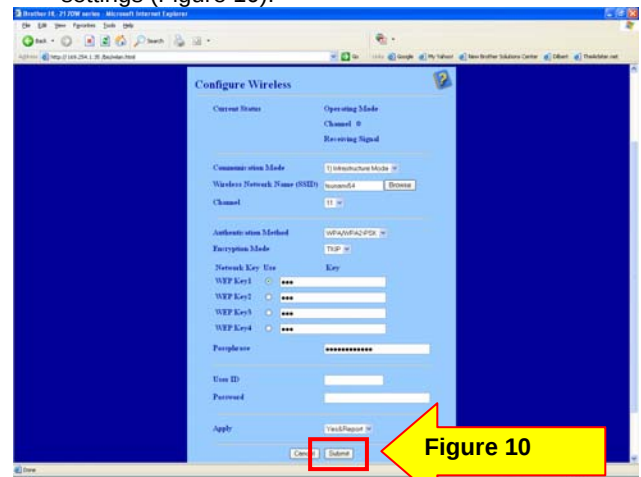


NOTE: If WEP is selected as the Encryption Method, enter the hex code for the WEP Key 1. There is no need to enter the Passphrase for WEP Encryption.

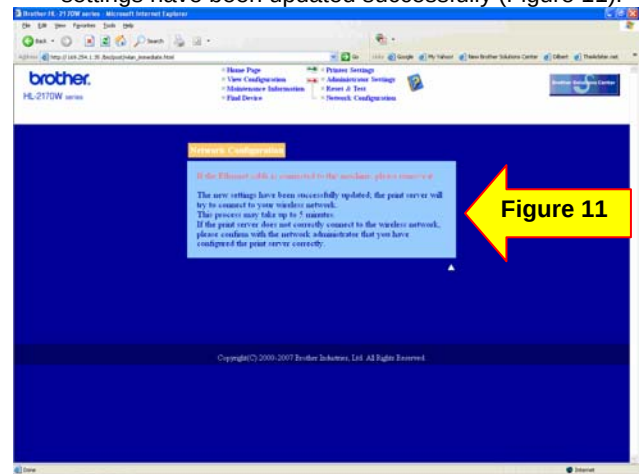
NOTE: If using an Authentication Method other than Open or Shared is selected, then a Passphrase must be entered on the Passphrase line (Figure 9).



12. Click Submit to update the printer with your wireless settings (Figure 10).



13. The computer should display a screen indicating the settings have been updated successfully (Figure 11).



14. The Wireless Network Card on the printer is now Active on the network.
15. Reconnect your computer to your wireless access point or wireless router. If you assistance doing this, please refer back to the start of Step VI.
16. Verify the printer is now attached to the wireless access point or wireless router.
- Wait approximately one minute.
 - Press the GO button 3 times to print the settings pages.
 - Look at the last page printed. Confirm that the IP address on that page is assigned via DHCP (Figure 12).
 - Confirm the Comm. Mode is set to Infrastructure, the Name (SSID) matches your access point or router and the Wireless Link Status is Link OK (Figure 13).

NOTE: If the IP Address is still 0.0.0.0, wait another minute and print out the settings pages again. If the IP Address is still 0.0.0.0, please reset the router by powering it off, then back on. Also, turn the printer off, then back on. Wait approximately one minute. Print out the Network Settings page again and

verify the settings. If the IP Address is still a 0.0.0.0 number, please verify your security information and go to STEP II.

If the IP Address is a 169.254.x.x number and the Wireless Link Status in LINK OK, please check your router for MAC filtering. If MAC filtering is enabled, please enter the MAC address to the list. If MAC filtering is not enable, please reset the router by powering it off, then back on. Also, turn the printer off, then back on. Wait approximately one minute. Print out the Network Settings page again and verify the settings. If the IP Address is still a 169.254.x.x number, please verify your security information and go to STEP II.

If the IP Address is a 169.254.x.x number and the Wireless Link Status in FAILED TO ASSOCIATE, please reset the router by powering it off, then back on. Also, turn the printer off, then back on. Print out the Network Settings page again and verify the settings. If the IP Address is still a 169.254.x.x number, please verify your security information and go to STEP II.

PRINTER SETTINGS(3/3)

HL-2170W series SER.NO:W7J130535

```
<<NETWORK CONFIGURATION>>
<Node Type> Brother HL-2100w, IEEE 802.11b/g (Active)
<Node Firmware Ver.> Firmware Ver.1.03 (07.08.31)
<Ethernet Address> 00:1c:76:02:aa:18
<Node name> BROS00077C7E8A18

<Active services>
  BROS00077C7E8A1
  BINARY_F1
  TELNET_F1
  POSTSCRIPT_F1
  PCL_F1
  BROS00077C7E8A1_AT

<Protocol>
  TCP/IP Enabled IPv6 Disabled
  NetBIOS/PP Enabled ADP/A Enabled
  LegacyAuth Enabled WebBasedManagement Enabled
  TELNET Enabled DHCP Enabled
  LPD Enabled Raw Port Enabled
  ITP Enabled WebServices Enabled
  POP3/SMTP Enabled FTP Enabled
  TFTP Enabled SFTP Enabled
  L2900 Enabled L2700 Disabled

<IP Settings>
  IP Address 205.134.46.45 (Via DHCP)
  Subnet Mask 255.255.255.0
  IP Gateway 205.134.46.254
  IP Config AUTO
  Host Name 3
  IP Filter Disabled

  GW Timeout (sec) 3
  DNS Address Config AUTO
  Primary DNS Server 205.134.46.230
  Secondary DNS Server 205.134.32.133
  <GetRDS Name> BROS00077C7E8A18
  <WINS Address Config> AUTO
  <Primary WINS Server> 205.134.46.230
  <Secondary WINS Server> 205.134.32.134
  <Printer Mail Address> bro00077c7e8a1@example.com
  <SMTP Server> 0.0.0.0
  <SMTP Port> 25
  <POP3 Server> 0.0.0.0
  <POP3 Port> 110
  <DNS Service Name> Brother HL-2170W series
  <WebServices Name> Brother HL-2170W series [00:1c:76:02:aa:18]
  <Comm. Mode> Infrastructure
  <Name(SSID)> brcmab154
  <Authentication Mode> Open System
  <Encryption Mode> WEP
  <Wireless Link Status> LINK OK, 11g(48Mbps), Receiving Signal = 3, Operating Ch = 6
  <Tx Power Code> Full, 1, 0

  <Network Statistics>
    Packets Received 194367
    Bytes Received 18256925
    Packets Transmitted 16133
    Bytes Transmitted 9734859

  <Wireless Statistics>
    SS Frames Encoded OK 194354
    SS Frames Error 0
    TX Frames Transmitted OK 74791
    TX Frames Error 1
```

Figure 12

The printer is now configured and is operating on your network.

Driver Installation

If you have the Brother software CD, please insert it and follow the directions to install the Driver Only.

If you do not have the Brother software CD, please [click here](#) to download and install the driver.