Multi-Protocol On-board Ethernet Multi-function Print Server and Wireless (IEEE 802.11b/g) Ethernet Multi-function Print Server

NETWORK USER’S GUIDE

Please read this manual thoroughly before using this machine on your network. You can print or view this manual from the CD-ROM at any time, please keep the CD-ROM in a convenient place for quick and easy reference at all times.

The Brother Solutions Center (http://solutions.brother.com) is your one stop resource for all your printing needs. Download the latest drivers and utilities for your machine, read FAQs and troubleshooting tips or learn about special printing solutions.
Definitions of warnings, cautions, and notes

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Notes tell you how you should respond to a situation that may arise or give tips about how the operation works with other features.

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<td>Bridgewater NJ 08807-0911</td>
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<tr>
<td></td>
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<td>1 Tame Street</td>
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<td>Manchester, M34 5JE, UK</td>
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Overview

The Brother machine can be shared on a 10/100 MB wired or IEEE 802.11b/802.11g wireless Ethernet network using the internal network print server. The print server supports various functions and methods of connection depending on the operating system you are running on a network supporting TCP/IP. These functions include printing, scanning, PC-FAX send, PC-FAX receive, PhotoCapture Center™, Remote Setup and Status Monitor. The following chart shows what network features and connections are supported by each operating system.

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¹ Not available for MFC-5490CN and MFC-5890CN.

² BRAdmin Professional and Web BRAdmin are available as a download from [http://solutions.brother.com](http://solutions.brother.com).

³ Not available for DCP models.

To use the Brother machine through a network, you need to configure the print server, and set up the computers you use.
For Wireless Users:

To achieve optimum results with normal every day document printing, place the Brother machine as close to the network access point (or router) as possible with minimal obstructions. Large objects and walls between the two devices as well as interference from other electronic devices can affect the data transfer speed of your documents.

Due to these factors, wireless may not be the best method of connection for all types of documents and applications. If you are printing large files, such as photos on glossy paper or multi-page documents with mixed text and large graphics, you may want to consider choosing wired Ethernet for a faster data transfer, or USB for the fastest throughput speed.

## Network features

Your Brother machine has the following basic network functions.

### Network printing

The print server provides printing services for Windows® 2000/XP/XP Professional x64 Edition and Windows Vista® supporting the TCP/IP protocols and Macintosh® supporting TCP/IP (Mac OS® X 10.2.4 or greater).

### Network scanning

You can scan documents over the network to your computer. (See Network Scanning in the Software User’s Guide.)

### Network PC-FAX (Not available for DCP models)

You can directly send a PC file as a PC-FAX over your network. (See Brother PC-FAX Software for Windows® and Sending a Fax for Macintosh® in the Software User’s Guide for a complete description.) Windows® users can also use PC-FAX receive. (See PC-FAX receiving in the Software User’s Guide.)

### Network PhotoCapture Center™

You can view, retrieve and save data from a USB flash memory drive or a media card inserted into the Brother machine. The software is automatically installed when you choose network connection during the software installation. For Windows®, choose the PHOTOCAPTURE tab of the ControlCenter3. For more information, see ControlCenter3 in the Software User’s Guide. For Macintosh®, launch any web browser in which FTP is available and enter FTP://xxx.xxx.xxx.xxx (where xxx.xxx.xxx.xxx is the IP address of your Brother machine). For more information, see Remote Setup & PhotoCapture Center in the Software User’s Guide.
Management utilities

**BRAdmin Light**
BRAdmin Light is a utility for initial setup of network connected Brother devices. This utility can search for Brother products on your network, view the status and configure basic network settings, such as IP address. The BRAdmin Light utility is available for Windows® 2000/XP and Windows Vista® and Mac OS® X 10.2.4 (or greater) computers. For installing BRAdmin Light on Windows®, please see the Quick Setup Guide we provided with the machine. For Macintosh® users, BRAdmin Light will be installed automatically when you install the printer driver. If you have already installed the printer driver, you don’t have to install it again.
For more information on BRAdmin Light, visit us at http://solutions.brother.com.

**BRAdmin Professional (for Windows®)**
BRAdmin Professional is a utility for more advanced management of network connected Brother devices. This utility can search for Brother products on your network, view their status and configure the network settings from a computer running Windows® system. BRAdmin Professional has additional features from BRAdmin Light.
For more information and downloading, visit us at http://solutions.brother.com.

**Web BRAdmin (for Windows®)**
Web BRAdmin is a utility for managing network connected Brother devices on your LAN and WAN. This utility can search for Brother products on your network, view its status and configure the network settings. Unlike BRAdmin Professional, which is designed for Windows® only, Web BRAdmin is a server based utility that can be accessed from any client PC with a web browser that supports JRE (Java Runtime Environment). By installing the Web BRAdmin server utility on a PC running IIS, connect to the Web BRAdmin server, which then communicates with the device itself.
For more information and downloading, visit us at http://solutions.brother.com.

1 Internet Information Server 4.0 or Internet Information Service 5.0/5.1/6.0/7.0

**Remote Setup (Not available for DCP models)**
The Remote Setup software allows you to configure network settings from a Windows® PC or Macintosh® (Mac OS® X 10.2.4 or greater) computer. (See Remote Setup in the Software User’s Guide.)

**Internet Fax/Scan to E-mail Server (MFC-6490CW and MFC-6890CDW: standard, MFC-5890CN: available as a download)**
The Brother machine can be assigned an E-mail address allowing you to send, receive or forward documents over a Local Area Network or the Internet to PC’s or other Internet Fax machines. Before using this function, you have to configure the necessary machine settings by using the machine’s control panel. For details, see Internet fax and Scan to E-mail (For MFC-6490CW and MFC-6890CDW) on page 141.

**For MFC-5890CN**
In order to use this function, please download the necessary software from our web site The Brother Solutions Center. (http://solutions.brother.com)
Types of Network Connections

Wired network connection example

Peer-to-Peer printing using TCP/IP

In a Peer-to-Peer environment, each computer directly sends and receives data to each device. There is no central server controlling file access or printer sharing.

1 Switch or Router
2 Network printer (your machine)

- In a smaller network of 2 or 3 computers, we recommend the Peer-to-Peer printing method as it is easier to configure than the Network Shared Printing method. (See Network Shared Printing on page 5.)
- Each computer must use the TCP/IP Protocol.
- The Brother machine needs an appropriate IP address configuration.
- If you are using a router, the Gateway address must be configured on the computers and the Brother machine.
Network Shared Printing

In a Network Shared environment, each computer sends data via a centrally controlled computer. This type of computer is often called a “Server” or a “Print Server”. Its job is to control the printing of all print jobs.

1 Client computer
2 Also known as “Server” or “Print Server”
3 TCP/IP or USB (where available)
4 Network printer (your machine)

- In a larger network, we recommend a Network Shared printing environment.
- The “Server” or the “Print Server” must use the TCP/IP Print Protocol.
- The Brother machine needs to have an appropriate IP address configuration unless the machine is connected via the USB interface at the server.
Wireless network connection examples

Connected to a computer with an access point on the network (Infrastructure mode)
This type of network has a central access point at the heart of the network. The access point can also act as a bridge or a gateway to a wired network. When the Brother wireless machine (your machine) is part of this network, it receives all print jobs via an access point.

1 Access point
2 Wireless network printer (your machine)
3 Wireless capable computer communicating with the access point
4 Wired computer which is not wireless capable connected to the access point with the Ethernet cable

Connected to a wireless capable computer without an access point on the network (Ad-hoc mode)
This type of network does not have a central access point. Each wireless client communicates directly with each other. When the Brother wireless machine (your machine) is part of this network, it receives all print jobs directly from the computer sending the print data.

1 Wireless network printer (your machine)
2 Wireless capable computer
Protocols

TCP/IP protocols and functions

Protocols are the standardized sets of rules for transmitting data on a network. Protocols allow users to gain access to network connected resources.

The print server used on this Brother product supports the TCP/IP (Transmission Control Protocol/Internet Protocol) protocols.

TCP/IP is the most popular set of protocols used for communication such as Internet and E-mail. This protocol can be used in almost all operating systems such as Windows®, Mac OS® X and Linux®. The following TCP/IP protocols are available on this Brother product.

DHCP/BOOTP/RARP

By using the DHCP/BOOTP/RARP protocols, the IP address can be automatically configured.

Note

To use the DHCP/BOOTP/RARP protocols, please contact your network administrator.

APIPA

If you do not assign an IP address manually (using the control panel of the machine or the BRAdmin software) or automatically (using a DHCP/BOOTP/RARP server), the Automatic Private IP Addressing (APIPA) protocol will automatically assign an IP address from the range 169.254.1.0 to 169.254.254.255.

DNS client

The Brother print server supports the Domain Name System (DNS) client function. This function allows the print server to communicate with other devices by using its DNS name.

LPR/LPD

Commonly used printing protocols on a TCP/IP network.

SMTP client (For MFC-6490CW and MFC-6890CDW)

Simple Mail Transfer Protocol (SMTP) client is used to send E-mails via Internet or Intranet.

Port9100

Another commonly used printing protocol on a TCP/IP network.

mDNS

mDNS allows the Brother print server to automatically configure itself to work in a Mac OS® X Simple Network Configured system. (Mac OS® X 10.2.4 or greater)
**TELNET**
The Brother print server supports TELNET server for command line configuration.

**SNMP**
The Simple Network Management Protocol (SNMP) is used to manage network devices including computers, routers and Brother network ready machines.

**Web Services**
The Web Services protocol enables Windows Vista® users to install the Brother printer driver by right-clicking the machine icon from the Network folder. (See *Installation when using Web Services (For Windows Vista® users)* on page 170.) The Web Services also let you check the current status of the machine from your computer.

**FTP client (For MFC-5890CN, MFC-6490CW and MFC-6890CDW)**
The File Transfer Protocol (FTP) allows the Brother machine to scan black and white or color documents directly to an FTP server located locally on your network or on the internet.

**LDAP (For MFC-6890CDW)**
Lightweight Directory Access Protocol (LDAP) allows the Brother machine to search for information such as fax numbers and E-mail addresses from an LDAP server.

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**IPv6 (For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW)**
Your brother machine is compatible with IPv6, the next generation internet protocol. For more information on the IPv6 protocol, visit [http://solutions.brother.com](http://solutions.brother.com).

**Other Protocol**

**LLTD**
The Link Layer Topology Discovery protocol (LLTD) lets you locate the Brother machine easily on the Windows Vista® Network Map. Your Brother machine will be shown with a distinctive icon and the node name. The default setting for this protocol is Off.

You can activate LLTD using the BRAdmin Professional utility software. Visit the download page for your model at [http://solutions.brother.com](http://solutions.brother.com) to download BRAdmin Professional.
Overview

Before using your Brother machine in a network environment, you must install the Brother software and also configure the appropriate TCP/IP network settings on the machine itself. In this chapter, you will learn the basic steps required to print over the network using TCP/IP protocol.

We recommend that you use the Brother installer on the Brother CD-ROM to install the Brother software as this will guide you through the software and network installation. Please follow the instructions in the supplied Quick Setup Guide.

Note
If you do not wish to, or are unable to use the automatic installer or any of Brother’s software tools, you can also use the machine’s control panel to change network settings. For more information, see Control panel setup on page 76.

IP addresses, subnet masks and gateways

To use the machine in a networked TCP/IP environment, you need to configure its IP address and subnet mask. The IP address you assign to the print server must be on the same logical network as your host computers. If it is not, you must properly configure the subnet mask and the gateway address.

IP address

An IP address is a series of numbers that identifies each device connected to a network. An IP address consists of four numbers separated by dots. Each number is between 0 and 255.

Example: In a small network, you would normally change the final number.

• 192.168.1.1
• 192.168.1.2
• 192.168.1.3
How the IP address is assigned to your print server:

If you have a DHCP/BOOTP/RARP server in your network (typically a UNIX®/Linux®, Windows® 2000/XP or Windows Vista® network) the print server will automatically obtain its IP address from that server.

Note

On smaller networks, the DHCP server may be the Router.

For more information on DHCP, BOOTP and RARP, see Using DHCP to configure the IP address on page 164, Using BOOTP to configure the IP address on page 165 and Using RARP to configure the IP address on page 166.

If you do not have a DHCP/BOOTP/RARP server, the Automatic Private IP Addressing (APIPA) protocol will automatically assign an IP address from the range 169.254.1.0 to 169.254.254.255. For more information on APIPA, see Using APIPA to configure the IP address on page 166.

If the APIPA protocol is disabled, the default IP address of a Brother print server is 192.0.0.192. However, you can easily change this IP address number to match with the IP address details of your network. For information on how to change the IP address, see Setting up the IP address and subnet mask on page 12.

Subnet mask

Subnet masks restrict network communication.

Example: Computer1 can talk to Computer2

- Computer1
  - IP Address: 192.168.1.2
  - Subnet Mask: 255.255.255.0
- Computer2
  - IP Address: 192.168.1.3
  - Subnet Mask: 255.255.255.0

Note

0 denotes that there is no limit to communication at this part of the address.

In the above example, we can communicate with any device that has an IP address that begins with 192.168.1.X.

Gateway (and router)

A gateway is a network point that acts as an entrance to another network and sends data transmitted via the network to an exact destination. The router knows where to direct data that arrives at the gateway. If a destination is located at an external network, the router transmits data to the external network. If your network communicates with other networks, you may need to configure the Gateway IP address. If you do not know the Gateway IP address then contact your Network Administrator.
Step by step chart

1  Configure the TCP/IP settings.
   - Configure the IP address  See page 12
   - Configure the subnet mask  See page 12
   - Configure the gateway  See page 12

2  Change the print server settings.
   - Using the BRAdmin Light utility  See page 15
   - Using the BRAdmin Professional utility  See page 16
   - Using the control panel  See page 76
   - Using the Remote Setup  See page 17
   - Using other methods  See page 164
Setting up the IP address and subnet mask

Using the BRAdmin Light utility to configure your machine as a network printer

BRAdmin Light

The BRAdmin Light utility is designed for initial setup of the Brother network connected devices. It also can search for Brother products in a TCP/IP environment, view the status and configure basic network settings, such as IP address. The BRAdmin Light utility is available for Windows® 2000/XP, Windows Vista® and Mac OS® X 10.2.4 or greater.

How to configure your machine using the BRAdmin Light utility

**Note**

- Please use the BRAdmin Light utility version that was supplied on the CD-ROM of your Brother product. You can also download the latest Brother BRAdmin Light utility version from [http://solutions.brother.com](http://solutions.brother.com).
- If you require more advanced printer management, use the latest Brother BRAdmin Professional utility that is available as a download from [http://solutions.brother.com](http://solutions.brother.com). This utility is only available for Windows® users.
- If you are using Windows® Firewall or a firewall function of anti-spyware or antivirus applications, temporarily disable them. Once you are sure that you can print, configure the software settings following the instructions again.
- Node Name: Node Name appears in current BRAdmin Light window. The default Node Name of the print server in the machine is “BRNxxxxxxxxxxxx” (“xxxxxxxxxxxx” is your machine’s Ethernet address.).
- For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW, the default password is “access”.
  For other models, no password is required by default. To set a password, double-click the device you want to set a password. Click Control tab, and then click Change Password. Enter the new password.

1. Start the BRAdmin Light utility.
   - For Windows® 2000/XP and Windows Vista®
     
     Click Start / All Programs / Brother / BRAdmin Light / BRAdmin Light.
   
   1 Programs for Windows® 2000 users
   - For Mac OS® X 10.2.4 or greater
     
     Double-click Macintosh HD (Startup Disk) / Library / Printers / Brother / Utilities / BRAdmin Light.jar file.

2. BRAdmin Light will search for new devices automatically.
Double-click the unconfigured device.

**Windows®**

![BRAdmin Light utility screen for Windows](image)

**Macintosh®**

![BRAdmin Light utility screen for Mac](image)

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**Note**

- If the print server is set to its factory default settings (if you don’t use a DHCP/BOOTP/RARP server), the device will appear as **Unconfigured** in the BRAdmin Light utility screen.

- You can find the Node Name and Ethernet address by printing the Network Configuration List. (See *Printing the Network Configuration List* on page 125 for information on how to print the Network Configuration List on your print server.)
4 Choose **STATIC** from **Boot Method**. Enter the **IP Address**, **Subnet Mask** and **Gateway** (if needed) of your print server.

**Windows®**

![Configure TCP/IP Address](image)

5 Click **OK**.

6 With the correctly programmed IP address, you will see the Brother print server in the device list.

**Using the control panel to configure your machine for a network**

You can configure your machine for a network using the control panel **Network** menu. (See **Control panel setup** on page 76.)

**Using other methods to configure your machine for a network**

You can configure your machine for a network using other methods. (See **Other ways to set the IP address (for advanced users and administrators)** on page 164.)
Changing the print server settings

Note
For wireless network users, you need to configure the wireless settings to change the print server settings. (See Configuring your machine for a wireless network (Not available for MFC-5490CN and MFC-5890CN) on page 18.)

Using the BRAdmin Light utility to change the print server settings

1 Start the BRAdmin Light utility.
   ■ For Windows® 2000/XP and Windows Vista®
     Click Start / All Programs ¹/ Brother / BRAdmin Light / BRAdmin Light.
     ¹ Programs for Windows® 2000 users
   ■ For Mac OS® X 10.2.4 or greater
     Double-click Macintosh HD (Startup Disk) / Library / Printers / Brother / Utilities / BRAdmin Light.jar file.

2 Choose the print server which you want to change the settings.

3 Choose Network Configuration from the Control menu.

4 Enter a password if you have set one.

5 You can now change the print server settings.

Note
If you want to change more advanced settings, use the BRAdmin Professional utility that is available as a download from http://solutions.brother.com. For Windows® only.
Using the BRAdmin Professional utility to change the wireless settings (For Windows®)

Note
- Please use the latest version of the BRAdmin Professional utility that is available as a download from http://solutions.brother.com. This utility is only available for Windows® users.
- If you are using Windows® Firewall or a firewall function of anti-spyware or antivirus applications, temporarily disable them. Once you are sure that you can print, configure the software settings following the instructions again.
- Node name: The node name appears in the current BRAdmin Professional window. The default Node name is “BRNxxxxxxxxxxxx” or “BRWxxxxxxxxxxxx” (“xxxxxxxxxxxx” is your Ethernet address.).

1 Start the BRAdmin Professional utility (from Windows® 2000/XP or Windows Vista®), by clicking Start / All Programs 1 / Brother Administrator Utilities / Brother BRAdmin Professional 3 / BRAdmin Professional 3.

2 Choose the print server which you want to configure.

3 Choose Configure Device from the Control menu.

4 Enter a password if you have set one.

Note
- For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW, the default password is “access”.
- For other models, no password is required by default. To set a password, double-click the device you want to set a password. Click Control tab, and then click Change Password. Enter the new password.

5 You can now change the wireless settings.

Note
- If the print server is set to its factory default settings without using a DHCP/BOOTP/RARP server, the device will appear as APIPA in the BRAdmin Professional utility screen.
- You can find the node name and Ethernet address (IP Address above) by printing out the Network Configuration List. (See Printing the Network Configuration List on page 125 for information on how to print the Network Configuration List on your print server.)
Using the Remote Setup to change the print server settings
(Not available for DCP models)

Remote Setup for Windows®

The Remote Setup application allows you to configure network settings from a Windows® application. When you access this application, the settings on your machine will be downloaded automatically to your PC and displayed on your PC screen. If you change the settings, you can upload them directly to the machine.

1 Click the Start button, All Programs, Brother, MFC-XXXX LAN, then Remote Setup (where XXXX is your model name).

1 Programs for Windows® 2000 users

2 Enter a password if you have set one.

Note
For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW, the default password is “access”.
For other models, no password is required by default.

3 Click TCP/IP (Wired) or Setup Misc.

4 You can now change the print server settings.

Remote Setup for Macintosh®

The Remote Setup application allows you to configure many MFC settings from a Macintosh® application. When you access this application, the settings on your machine will be downloaded automatically to your Macintosh® and displayed on your Macintosh® screen. If you change the settings, you can upload them directly to the machine.

1 Double-click the Macintosh HD icon on your desktop, Library, Printers, Brother, then Utilities.

2 Double-click the Remote Setup icon.

3 Enter a password if you have set one.

Note
For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW, the default password is “access”.
For other models, no password is required by default.

4 Click TCP/IP (Wired) or Setup Misc.

5 You can now change the print server settings.

Using the control panel to change the print server settings

You can configure and change the print server settings using the control panel Network menu. (See Control panel setup on page 76.)
Configuring your machine for a wireless network (Not available for MFC-5490CN and MFC-5890CN)

Overview

To connect your machine to your wireless network, you need to follow the steps in the Quick Setup Guide. We recommend that you use the Setup Wizard from the machine’s control panel Network menu. By using this method, you can easily connect your machine to your wireless network. Please follow the instructions in the supplied Quick Setup Guide.

Please read this chapter for more details on how to configure the wireless network settings. For information on TCP/IP settings, see Setting up the IP address and subnet mask on page 12. Then, in Network printing from Windows® basic TCP/IP Peer-to-Peer printing on page 131 and Network printing from a Macintosh® on page 134, you will learn how to install the network software and drivers into the operating system running on your computer.

Note

• To achieve optimum results with normal every day document printing, place the Brother machine as close to the network access point (or router) as possible with minimal obstructions. Large objects and walls between the two devices as well as interference from other electronic devices can affect the data transfer speed of your documents.

  Due to these factors, wireless may not be the best method of connection for all types of documents and applications. If you are printing large files, such as multi-page documents with mixed text and large graphics, you may want to consider choosing wired Ethernet for a faster data transfer, or USB for the fastest throughput speed.

• Although the Brother machine can be used in both a wired and wireless network, only one connection method can be used at a time.
Wireless network terms and concepts

If you want to use your machine in a wireless network you must configure the machine to match the settings of the existing wireless network. This section provides some of the main terms and concepts of these settings, which may be helpful when you configure your machine for a wireless network.

SSID (Service Set Identifier) and channels

You need to configure the SSID and a channel to specify the wireless network you want to connect to.

- **SSID**
  - Each wireless network has its own unique network name and it is technically referred to as SSID or ESSID (Extended Service Set Identifier). The SSID is a 32-byte or less value and is assigned to the access point. The wireless network devices you want to associate to the wireless network should match the access point. The access point and wireless network devices regularly send wireless packets (referred to as a beacon) which has the SSID information. When your wireless network device receives a beacon, you can identify the wireless network that is close enough for the radio waves to reach your device.

- **Channels**
  - Wireless networks use channels. Each wireless channel is on a different frequency. There are up to 14 different channels that can be used when using a wireless network. However, in many countries the number of channels available are restricted. For further information, see *Ethernet wireless network* on page 172.

Authentication and encryption

Most wireless networks use some kind of security settings. These security settings define the authentication (how the device identifies itself to the network) and encryption (how the data is encrypted as it is sent on the network). If you do not correctly specify these options when you are configuring your Brother wireless device, it will not be able to connect to the wireless network. Therefore care must be taken when configuring these options. Please refer to the information below to see which authentication and encryption methods your Brother wireless device supports.

**Authentication methods**

The Brother machine supports the following methods:

- **Open System**
  - Wireless devices are allowed to access the network without any authentication.

- **Shared Key**
  - A secret pre-determined key is shared by all devices that will access the wireless network. The Brother wireless machine uses the WEP keys as the pre-determined key.

- **WPA-PSK/WPA2-PSK**
  - Enables a Wi-Fi Protected Access™ Pre-shared key (WPA-PSK/WPA2-PSK), which enables the Brother wireless machine to associate with access points using TKIP for WPA-PSK or AES for WPA-PSK and WPA2-PSK (WPA-Personal).
Encryption methods

Encryption is used to secure the data that is sent over the wireless network. The Brother wireless machine supports the following encryption methods:

- **None**
  No encryption method is used.

- **WEP**
  By using WEP (Wired Equivalent Privacy), the data is transmitted and received with a secure key.

- **TKIP**
  TKIP (Temporal Key Integrity Protocol) provides per-packet key mixing a message integrity check and re-keying mechanism.

- **AES**
  AES (Advanced Encryption Standard) is the Wi-Fi® authorized strong encryption standard.

Network Key

There are some rules for each security method:

- **Open System/Shared Key with WEP**
  This key is a 64-bit or 128-bit value that must be entered in an ASCII or hexadecimal format.
    - 64 (40) bit ASCII:
      Uses 5 text characters e.g. “WSLAN” (this is case sensitive).
    - 64 (40) bit hexadecimal:
      Uses 10 digits of hexadecimal data e.g. “71f2234aba”.
    - 128 (104) bit ASCII:
      Uses 13 text characters e.g. “Wirelesscomms” (this is case sensitive).
    - 128 (104) bit hexadecimal:
      Uses 26 digits of hexadecimal data e.g. “71f2234ab56cd709e5412aa2ba”.

- **WPA-PSK/WPA2-PSK and TKIP or AES**
  Uses a Pre-Shared Key (PSK) that is 8 or more characters in length, up to a maximum of 63 characters.
Step by step chart for wireless network configuration

For Infrastructure mode

1. Confirm your network environment. (See page 23.)
   - **Infrastructure mode**
     Connected to a computer with an access point
   - or
   - **Ad-hoc mode** → See page 22.
     Connected to a wireless capable computer without an access point

2. Confirm your wireless network setup method. (See page 24.)
   - Using the **Setup Wizard** from the control panel (Recommended)
   - Using the **SES/WPS/AOSS control panel menu**
   - Using the **PIN Method** of Wi-Fi Protected Setup™
   - Using the **Brother installer application**
     - Temporarily using a network cable
     - Using the **SES/WPS/AOSS control panel menu**

3. Configure your machine for a wireless network. (See page 27.)
   - See page 27.
   - See page 31.
   - See page 35.
   - For Windows®
     (See page 38.)
   - For Macintosh®
     (See page 58.)
   - For Windows®
     (See page 45.)
   - For Macintosh®
     (See page 65.)

**Installing drivers and software** (See the Quick Setup Guide.)

**OK!** Wireless configuration and installing drivers and software have been completed.
For Ad-hoc mode

1. Confirm your network environment. (See page 23.)

- **Ad-hoc mode**
  Connected to a wireless capable computer without an access point

  or

- **Infrastructure mode** See page 21.
  Connected to a computer with an access point

2. Confirm your wireless network setup method. (See page 24.)

- Using the **Setup Wizard** from the control panel *(Recommended)*
- Using the **Brother installer application***

3. Configure your machine for a wireless network. (See page 27.)

- See page 27.
- For Windows® (See page 50.)
  For Macintosh® (See page 69.)

- **Installing drivers and software** *(See the Quick Setup Guide.)*

**OK!** Wireless configuration and installing drivers and software have been completed.
Confirm your network environment

Connected to a computer with an access point in the network (Infrastructure mode)

1 Access point
2 Wireless network printer (your machine)
3 Wireless capable computer connected to the access point
4 Wired computer which is not wireless capable connected to the access point with an Ethernet cable

Connected to a wireless capable computer without an access point in the network (Ad-hoc mode)

This type of network does not have a central access point. Each wireless client communicates directly with each other. When the Brother wireless machine (your machine) is part of this network, it receives all print jobs directly from the computer sending the print data.

1 Wireless network printer (your machine)
2 Wireless capable computer
Confirm your wireless network setup method

There are four methods to configure your machine for a wireless network; by using the machine’s control panel (recommended), using SES, WPS or AOSS from the control panel menu, using the PIN Method of Wi-Fi Protected Setup™ or using the Brother installer application. The setup process will be different depending on your network environment.

Configuration using the machine’s control panel Setup Wizard to configure your wireless network machine

We recommend that you use the machine’s control panel to configure your wireless network settings. By using the control panel Setup Wizard function, you can easily connect your Brother machine to your wireless network. You must know your wireless network settings before you proceed with this installation. (See Using the Setup Wizard from the control panel on page 27.)

Configuration using the SES/WPS/AOSS control panel menu (Infrastructure mode only)

If your wireless access point (A) supports either SecureEasySetup™, Wi-Fi Protected Setup™ (PBC ¹) or AOSS™, you can configure the machine without a computer. (See Using the SES/WPS/AOSS control panel menu to configure your machine for a wireless network on page 31.)

¹ Push Button Configuration
Configuration using the PIN Method of Wi-Fi Protected Setup™
(Infrastructure mode only)

If your wireless access point (A) supports Wi-Fi Protected Setup™, you can also configure using the PIN Method of Wi-Fi Protected Setup™. (See Using the PIN Method of Wi-Fi Protected Setup™ on page 35.)

- Connection when the wireless access point (router) (A) doubles as a Registrar.

- Connection when another device (C), such as a computer is used as a Registrar.

1 The Registrar is a device that manages the wireless LAN.
Configuration using the Brother installer application on the CD-ROM to configure your wireless network machine

You can also use the Brother installer application on the CD-ROM we have provided with the machine. You will be guided by the on-screen instructions until you are able to use your Brother wireless network machine. You must know your wireless network settings before you proceed with this installation. (See Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN) on page 38 or Wireless Configuration for Macintosh® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN) on page 58.)

Configuration temporarily using a network cable

If there is an Ethernet Hub or Router in the same network as the wireless access point (A) of your machine, you can temporarily connect the Hub or Router to the Brother machine using an Ethernet cable (B), this is an easy way to configure your machine. You can then remotely configure the machine from a computer on the network.
Configuring your machine for a wireless network

⚠️ IMPORTANT

• If you are going to connect your Brother machine to your network, we recommend that you contact your system administrator prior to installation. **You must know your wireless network settings before you proceed with this installation.**

• If you have previously configured the wireless settings of the machine, you must reset the network LAN settings before you can configure the wireless settings again. Use **Menu, ▲ or ▼** to choose **Network, Factory Reset**, and choose **Yes** to accept the change. For Touchscreen models, press **MENU, Network, ▲ or ▼** to display **Factory Reset** then press **Factory Reset**, and choose **Yes** to accept the change. The machine will restart automatically.

**Using the Setup Wizard from the control panel**

You can configure your print server by using the **Setup Wizard** function. This is located in the **Network** menu on the machine’s control panel. See to the steps below for further information.

1. Write down the wireless network settings of your access point or wireless router.

<table>
<thead>
<tr>
<th>Item</th>
<th>Example</th>
<th>Record the current wireless network settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication mode: (Infrastructure)</td>
<td>Infrastructure</td>
<td></td>
</tr>
<tr>
<td>Network name: (SSID, ESSID)</td>
<td>HELLO</td>
<td></td>
</tr>
<tr>
<td>Authentication method: (Open system, Shared key, WPA-PSK, WPA2-PSK)</td>
<td>WPA2-PSK</td>
<td></td>
</tr>
<tr>
<td>Encryption mode: (None, WEP,TKIP, AES)</td>
<td>AES</td>
<td></td>
</tr>
<tr>
<td>Network key: (Encryption key, WEP key, Passphrase)</td>
<td>12345678</td>
<td></td>
</tr>
</tbody>
</table>

2. Turn on the machine by plugging in the power cord.

3. Press **Menu**.

4. Press ▲ or ▼ to choose **Network**.

5. Press OK.

6. Press ▲ or ▼ to choose **WLAN**.

7. Press OK.

8. Press ▲ or ▼ to choose **Setup Wizard**.

9. Press OK.
The machine will search for your network and display a list of available SSIDs. You should see the SSID you wrote down earlier. If the machine finds more than one network use ▲ or ▼ key to choose your network, then press OK. Go to 9.
If your access point is set to not broadcast the SSID, you will have to manually add the SSID name. Go to 8.

Choose <New SSID> using ▲ or ▼.
Press OK. Go to 9.

Enter the SSID name. (For information how to type text, see Entering Text on page 179.)
Press OK. Go to 10.

Using ▲ or ▼, choose Infrastructure when instructed.
Press OK. Go to 11.
If you chose Ad-hoc, go to 12.

Choose the Authentication method using ▲ or ▼, and press OK.
If you chose Open System, go to 12.
If you chose Shared Key, go to 13.
If you chose WPA/WPA2-PSK, go to 16.

Choose the Encryption type None or WEP using ▲ or ▼, and press OK.
If you chose None, go to 15.
If you chose WEP, go to 12.

Choose the key option KEY1, KEY2, KEY3, KEY4 using ▲ or ▼, and press OK.
If you chose the key which shows **********, go to 14.
If you chose a blank key, go to 15.

If you want to change the key you chose in 12, press ▲ or ▼ to choose Change. Press OK. Go to 15.
If you want to keep the key you chose in 12, press ▲ or ▼ to choose Keep. Press OK. Go to 16.

Enter a new WEP key. Press OK. Go to 15. (For information how to type text, see Entering Text on page 179.)

Choose the Encryption type, TKIP or AES using ▲ or ▼. Press OK. Go to 13.

Enter the password and press OK. Go to 14. (For information how to type text, see Entering Text on page 179.)

To apply the settings, choose Yes. To cancel, choose No.
If you chose Yes, go to 18.
If you chose No, go back to 7.

The machine starts to connect to the wireless device you have chosen.

If your wireless device is connected successfully, the display shows Connected for 60 seconds and configuration is completed.
If the connection failed, the display shows Connection Failed for 60 seconds. (See Wireless network troubleshooting on page 162.)

Press OK.
(For Windows®)
You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.

(For Macintosh®)
You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.

For Touchscreen models
1. Write down the wireless network settings of your access point or wireless router.
   - SSID (Service Set ID or Network name)
   - WEP key (if needed)
   - WPA-PSK Encryption (TKIP or AES)
   - WPA-PSK password (if needed)
2. Turn on the machine by plugging in the power cord.
3. Press MENU.
4. Press Network.
5. Press WLAN.
7. The machine will search for your network and display a list of available SSIDs. You should see the SSID you wrote down earlier. If the machine finds more than one network use ▲ or ▼ key to choose your network. Go to 11.
   If your access point is set to not broadcast the SSID, you will have to manually add the SSID name. Go to 10.
9. Enter the SSID name. (For information how to type text, see Entering Text on page 179.) Go to 10.
    If you chose Ad-hoc, go to 12.
11. Choose and press the Authentication method.
    If you chose Open System, go to 13.
    If you chose Shared Key, go to 13.
    If you chose WPA/WPA2-PSK, go to 13.
12. Choose and press the Encryption type None or WEP.
    If you chose None, go to 13.
    If you chose WEP, go to 13.
Choose and press the key option KEY1:, KEY2:, KEY3:, KEY4:.
If you chose the key which shows ********, go to 14.
If you chose a blank key, go to 15.

If you want to change the key you chose in 13, press Change. Go to 16.
If you want to keep the key you chose in 13, press Keep. Go to 17.

Enter a new WEP key. Press OK. Go to 18. (For information how to type text, see Entering Text on page 179.)

Choose and press the Encryption type, TKIP or AES. Go to 19.

Enter the password and press OK. Go to 20. (For information how to type text, see Entering Text on page 179.)

To apply the settings, press Yes. To cancel, press No.
If you chose Yes, go to 21.
If you chose No, go back to 18.

The machine starts to connect to the wireless device you have chosen.

If your wireless device is connected successfully, the display shows Connected for 60 seconds and configuration is completed.
If the connection failed, the display shows Connection Failed for 60 seconds. (See Wireless network troubleshooting on page 162.)

Press .

(For Windows®)
You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.

(For Macintosh®)
You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.
Using the SES/WPS/AOSS control panel menu to configure your machine for a wireless network

If your wireless access point supports either SecureEasySetup™, Wi-Fi Protected Setup™ (PBC) or AOSS™ (one-push method), you can configure the machine easily without a computer. Your Brother machine has the SES/WPS/AOSS menu available from the control panel. This feature automatically detects which mode your access point uses, SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™. By pushing a button on the wireless LAN router / access point, you can setup the wireless network and security settings. See the user's guide for your wireless LAN router / access point for instructions on how to access one-push mode.

1 Push Button Configuration

Note

Routers or access points that support SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™ have the appropriate symbols shown below.

![Secure Easy Setup](image1)

![Wi-Fi Protected Setup](image2)

![AOSS](image3)

1. Turn on the machine by plugging in the power cord.
2. Press Menu on the control panel of the Brother machine.
3. Press ▲ or ▼ to choose Network. Press OK.
4. Press ▲ or ▼ to choose WLAN. Press OK.
5. Press ▲ or ▼ to choose SES/WPS/AOSS. Press OK.
   This feature will automatically detect which mode (SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™) your access point uses to configure your machine.

Note

If your wireless access point supports Wi-Fi Protected Setup™ (PIN Method) and you want to configure your machine using the PIN (Personal Identification Number) Method, see Using the PIN Method of Wi-Fi Protected Setup™ on page 35.

6. The machine searches for an access point that supports SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™ for 2 minutes.
7. Put your access point in the SecureEasySetup™ mode, Wi-Fi Protected Setup™ mode or AOSS™ mode, depending on what is supported by your access point. Please refer to the instruction manual that came with your access point.
If the LCD shows **Connected**, the machine has successfully connected to your router or access point. You can now use your machine in a wireless network.

If the LCD shows **Setting WLAN**, **Connecting SES** (**Connecting WPS** or **Connecting AOSS**), then **Connection Failed**, the machine has not successfully connected to your router or access point. Try starting from 6 again. If the same message is indicated again, reset the machine back to the default factory settings and try again. For resetting, see *Restoring the network settings to factory default* on page 124.

If the LCD shows **Setting WLAN**, then **Connection Failed** or **Incorrect Mode**, a session overlap was detected (see the table below). The machine has detected more than one router or access point on your network that has SecureEasySetup™, the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled. Make sure that only one router or access point has SecureEasySetup™, Wi-Fi Protected Setup™ mode or AOSS™ mode enabled and try starting from 6 again.

<table>
<thead>
<tr>
<th>LCD shows</th>
<th>Connection status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting WLAN</td>
<td>Searching or accessing the access point, and downloading settings from the access point.</td>
<td>—</td>
</tr>
<tr>
<td>Connecting SES</td>
<td>Connecting to the access point.</td>
<td>—</td>
</tr>
<tr>
<td>Connecting WPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connecting AOSS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connected</td>
<td>Connection succeeded.</td>
<td>—</td>
</tr>
</tbody>
</table>
| Connection Failed        | Connection failed. **(If this is shown after the LCD shows Connecting SES, Connecting WPS or Connecting AOSS.)** | 1 Try starting from 6 again.  
2 If the same message continues, reset the machine back to the factory settings and try again. |
|                          | A session overlap was detected.                                                   | Check that only one router or access point has SecureEasySetup™, the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled and try starting from 6 again. |

Press **OK**.

(For Windows®)

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.

(For Macintosh®)

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.
For Touchscreen models

1. Turn on the machine by plugging in the power cord.
2. Press **MENU**.
3. Press **Network**.
4. Press **WLAN**.
5. Press **SES/WPS/AOSS**.
   This feature will automatically detect which mode (SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™) your access point uses to configure your machine.

**Note**

If your wireless access point supports Wi-Fi Protected Setup™ (PIN Method) and you want to configure your machine using the PIN (Personal Identification Number) Method, see *Using the PIN Method of Wi-Fi Protected Setup™* on page 35.

6. The machine searches for an access point that supports SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™ for 2 minutes.

7. Put your access point in the SecureEasySetup™ mode, Wi-Fi Protected Setup™ mode or AOSS™ mode, depending on what is supported by your access point. Please refer to the instruction manual that came with your access point.

8. If the LCD shows **Connected**, the machine has successfully connected to your router or access point. You can now use your machine in a wireless network.
   If the LCD shows **Setting WLAN, Connecting SES** (Connecting WPS or Connecting AOSS), then **Connection Failed**, the machine has not successfully connected to your router or access point. Try starting from ⑤ again. If the same message is indicated again, reset the machine back to the default factory settings and try again. For resetting, see *Restoring the network settings to factory default* on page 124.
   If the LCD shows **Setting WLAN**, then **Connection Failed** or **Incorrect Mode**, a session overlap was detected (see the table below). The machine has detected more than one router or access point on your network that has SecureEasySetup™, the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled. Make sure that only one router or access point has SecureEasySetup™, Wi-Fi Protected Setup™ mode or AOSS™ mode enabled and try starting from ⑤ again.
Configuring your machine for a wireless network (Not available for MFC-5490CN and MFC-5890CN)

**LCD messages when using the SES/WPS/AOSS control panel menu**

<table>
<thead>
<tr>
<th>LCD shows</th>
<th>Connection status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting WLAN</td>
<td>Searching or accessing the access point, and downloading settings from the access point.</td>
<td>—</td>
</tr>
<tr>
<td>Connecting SES</td>
<td>Connecting to the access point.</td>
<td>—</td>
</tr>
<tr>
<td>Connecting WPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connecting AOSS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connected</td>
<td>Connection succeeded.</td>
<td>—</td>
</tr>
<tr>
<td>Connection Failed</td>
<td>Connection failed. (If this is shown after the LCD shows Connecting SES, Connecting WPS or Connecting AOSS.)</td>
<td>1  Try starting from 3 again. 2  If the same message continues, reset the machine back to the factory settings and try again.</td>
</tr>
<tr>
<td>Incorrect Mode</td>
<td>A session overlap was detected.</td>
<td>Check that only one router or access point has SecureEasySetup™, the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled and try starting from 3 again.</td>
</tr>
</tbody>
</table>

9 Press .

(For Windows®)

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.

(For Macintosh®)

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.
Using the PIN Method of Wi-Fi Protected Setup™

If your wireless access point supports Wi-Fi Protected Setup™ (PIN Method), you can configure the machine easily without a computer. The PIN (Personal Identification Number) Method is one of the connection methods developed by the Wi-Fi Alliance. By inputting a PIN which is created by an Enrollee (your machine) to the Registrar (a device that manages the wireless LAN), you can setup the wireless network and security settings. See the user's guide for your wireless LAN router / access point for instructions on how to access the Wi-Fi Protected Setup™ mode.

**Note**
Routers or access points that support Wi-Fi Protected Setup™ have a symbol as shown below.

1. Turn on the machine by plugging in the power cord.
2. Press Menu on the control panel of the Brother machine.
3. Press ▲ or ▼ to choose Network. Press OK.
4. Press ▲ or ▼ to choose WLAN. Press OK.
5. Press ▲ or ▼ to choose WPS w/PIN Code. Press OK.
6. The LCD will show an 8 digit PIN and the machine starts searching for an access point for 5 minutes.
7. Using a computer that is on the network, type “http://access point’s IP address/” into your browser. (Where “access point’s IP address” is the IP address of the device that is used as the Registrar ¹.) Go to the WPS (Wi-Fi Protected Setup™) setting page and input the PIN which the LCD shows in ⁶ to the Registrar and follow the on-screen instruction.

¹ The Registrar is normally the access point / router.

**Note**
The setting page is different, depending on the brand of access point / router. See the instruction manual that came with your access point / router.

If you are using your Windows Vista® computer as a Registrar, follow the instructions below.

**Note**
To use a Windows Vista® computer as a Registrar, you need to register it to your network in advance. See the instruction manual that came with your access point / router.
Configuring your machine for a wireless network (Not available for MFC-5490CN and MFC-5890CN)

1. Click  and then Network.
2. Click Add a wireless device.
3. Choose your machine and click Next.
4. Input the PIN from the printed page and then click Next.
5. Choose your network that you want to connect to, and then click Next.
6. Click Close.
8. If the LCD shows Connected, the machine has successfully connected to your router or access point. You can now use your machine in a wireless network.
    If the LCD shows Connection Failed, the machine has not successfully connected to your router or access point. Try starting from 3 again. If the same message is indicated again, reset the machine back to the default factory settings and try again. For resetting, see Restoring the network settings to factory default on page 124.

(For Windows®)
You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.

(For Macintosh®)
You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.

For Touchscreen models
1. Turn on the machine by plugging in the power cord.
2. Press MENU.
3. Press Network.
4. Press WLAN.
5. Press ▲ or ▼ to display WPS w/PIN Code, and then press WPS w/PIN Code.
6. The LCD will show an 8 digit PIN and the machine starts searching for an access point for 5 minutes.
7. Using a computer that is on the network, type “http://access points IP address/” into your browser. (Where “access point’s IP address” is the IP address of the device that is used as the Registrar ¹.) Go to the WPS (Wi-Fi Protected Setup™) setting page and input the PIN which the LCD shows in 6 to the Registrar and follow the on-screen instruction.

¹ The Registrar is normally the access point / router.
Configuring your machine for a wireless network (Not available for MFC-5490CN and MFC-5890CN)

Note
The setting page is different, depending on the brand of access point / router. See the instruction manual that came with your access point / router.

If you are using your Windows Vista® computer as a Registrar, follow the instructions below.

Note
To use a Windows Vista® computer as a Registrar, you need to register it to your network in advance. See the instruction manual that came with your access point / router.

1 Click  and then Network.
2 Click Add a wireless device.
3 Choose your machine and click Next.
4 Input the PIN from the printed page and then click Next.
5 Choose your network that you want to connect to, and then click Next.
6 Click Close.

If the LCD shows Connected, the machine has successfully connected to your router or access point. You can now use your machine in a wireless network.
If the LCD shows Connection Failed, the machine has not successfully connected to your router or access point. Try starting from 6 again. If the same message is indicated again, reset the machine back to the default factory settings and try again. For resetting, see Restoring the network settings to factory default on page 124.

Press .

(For Windows®)
You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.

(For Macintosh®)
You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.

Using the Brother automatic installer application on the CD-ROM to configure your machine for a wireless network

For installation, see Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN) on page 38 and Wireless Configuration for Macintosh® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN) on page 58.
IMPORTANT

• The following instructions will install your Brother machine in a network environment using the Brother installer application for Windows® found on the CD-ROM we have provided with the machine.

• You can also setup your Brother machine using the machine’s control panel which we recommend. You can find instructions in the supplied Quick Setup Guide or see Configuring your machine for a wireless network (Not available for MFC-5490CN and MFC-5890CN) on page 18.

• If you are going to connect your Brother machine to your network, we recommend that you contact your system administrator prior to installation. You must know your wireless network settings before you proceed with this installation.

Configuration in Infrastructure mode

Before configuring the wireless settings

IMPORTANT

• If you have previously configured the wireless settings of the machine, you must reset the network LAN settings before you can configure the wireless settings again. Use Menu, ▲ or ▼ to choose Network, press OK. Press ▲ or ▼ to choose Factory Reset, press OK. Choose Yes to accept the change. For Touchscreen models, press MENU, Network, ▲ or ▼ to display Factory Reset then press Factory Reset, and choose Yes to accept the change. The machine will restart automatically.

• If you are using Windows® Firewall or a firewall function of anti-spyware or antivirus applications, temporarily disable them. Once you are sure that you can print, configure the software settings following the instructions again.

• You need to temporarily use an Ethernet cable during configuration.
Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)

Configure the wireless settings

1. Turn on the machine by plugging in the power cord.
2. Turn on your computer.
3. Put the supplied CD-ROM into your CD-ROM drive. The opening screen will appear automatically. If the model name screen appears, choose your machine. If the language screen appears, choose your language.
4. The CD-ROM main menu will appear. Click **Initial Installation** or **Advanced**.

![Wireless LAN Setup Wizard](image)

**Note**
- If this window does not appear, use Windows® Explorer to run the start.exe program from the root folder of the Brother CD-ROM.
- The screen on your machine may vary depending on your region.

5. Click **Wireless LAN Setup Wizard**.

![Wireless LAN Setup Wizard](image)
6. Choose **Step by Step install (Recommended)** and then click **Next**.

7. Choose **With cable (Recommended)** and then click **Next**.

8. Read the **Important Notice**. Check the box after you confirm the wireless setting is enabled, and then click **Next**.
9. Connect the Brother wireless device to your access point using a network cable and click **Next**.

10. Choose the machine you wish to configure, and click **Next**. If the list is blank, check if the access point and the machine are powered on, and then click **Refresh**.

**Note**

The default Node name is “BRNxxxxxxxxxxxxx”.
Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)

11 The wizard will search for wireless networks available from your machine. Choose the access point you wish to associate the machine with, and then click **Next**.

![Available Wireless Networks](image)

**Note**

- “SETUP” is the default SSID of the machine. Do not choose this SSID.
- If the list is blank, check that the access point has power and is broadcasting the SSID, and then see if the machine and the access point are within range for wireless communication. Then, click **Refresh**.
- If your access point is set to not broadcast the SSID you can manually add it by clicking the **Add** button. Follow the on-screen instructions for entering the **Name (SSID)**.

![Wireless Network Name](image)

12 If your network is not configured for Authentication and Encryption, the following screen will appear. To continue configuration, click **OK** and go to 11.

![ATTENTION!](image)
If your network is configured for Authentication and Encryption, the following screen will appear. When configuring your Brother wireless machine, you must configure your machine to match the Authentication and Encryption settings of your existing wireless network. Choose the Authentication Method and Encryption Mode from the pull-down menu in each setting box. Then enter the Network Key and click Next.

![Authentication and Encryption settings screen](image)

**Note**
- If you want to setup or configure additional WEP key indexes other than WEP key1, click Advanced.
- If you do not know the Authentication or Encryption settings for your network, contact your network administrator.
- If your wireless settings fail, an error message will appear during the installation of MFL-Pro Suite and the installation will be terminated. If you encounter this failure, go to step 1 on page 39 and setup the wireless connection again.
- If you are using WEP and the LCD displayed 'Connected' but your machine is not found, make sure you entered the WEP key correctly. The WEP key is case sensitive.

Click Next. The settings will be sent to your machine. The settings will remain unchanged if you click Cancel.

![Wireless Network Settings Confirmation](image)

**Note**
- If you want to manually enter the IP address settings of your machine, click Change IP Address and enter the necessary IP address settings for your network.
- The control panel settings will be automatically changed to WLAN when the wireless settings are sent to your machine.
Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)

15 Disconnect the network cable between your access point (hub or router) and the machine, and click Next.

16 Check the box after you confirm that you have completed the wireless settings, and then click Finish.

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.
Configuration using the SES/WPS/AOSS control panel menu (One-Push method)

Before configuring the wireless settings

**IMPORTANT**

- If you have previously configured the wireless settings of the machine, you must reset the network LAN settings before you can configure the wireless settings again. Use Menu, ▲ or ▼ to choose Network, press OK. Press ▲ or ▼ to choose Factory Reset, press OK. Choose Yes to accept the change. For Touchscreen models, press MENU, Network, ▲ or ▼ to display Factory Reset then press Factory Reset, and choose Yes to accept the change. The machine will restart automatically.

- If you are using Windows® Firewall or a firewall function of anti-spyware or antivirus applications, temporarily disable them. Once you are sure that you can print, configure the software settings following the instructions again.

Configure the wireless settings

1. Turn on the machine by plugging in the power cord.
2. Press Menu.
   Press ▲ or ▼ to choose Network, press OK.
   Press ▲ or ▼ to choose Network I/F, press OK.
   Choose WLAN.

   (For Touchscreen models)
   Press MENU. Press Network. Press Network I/F and then press WLAN.
3. Turn on your computer.
   Close any applications running before you start configuration.
4. Put the supplied CD-ROM into your CD-ROM drive. The opening screen will appear automatically. If the model name screen appears, choose your machine. If the language screen appears, choose your language.
Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)

5 The CD-ROM main menu will appear. Click **Initial Installation** or **Advanced**.

![Initial Installation and Advanced options](image1)

**Note**
- If this window does not appear, use Windows® Explorer to run the start.exe program from the root folder of the Brother CD-ROM.
- The screen on your machine may vary depending on your region.

6 Click **Wireless LAN Setup Wizard**.

![Wireless LAN Setup Wizard](image2)
7. Choose **Automatic install (Advanced)** and click **Next**.

8. Read the **Important Notice**. Check the box after you confirm the wireless setting is enabled, and then click **Next**.

9. Confirm the on-screen message and click **Next**.
Press **Menu**, ▲ or▼ to choose **Network** and press **OK**. Press ▲ or▼ to choose **WLAN** and then press **OK**. Press ▲ or▼ to choose **SES/WPS/AOSS** and press **OK**.

(For Touchscreen models)
Press **MENU**. Press **Network**. Press **WLAN** and then press **SES/WPS/AOSS**.

**Note**
If your wireless access point supports Wi-Fi Protected Setup™ (PIN Method) and you want to configure your machine using the PIN (Personal Identification Number) Method, see *Using the PIN Method of Wi-Fi Protected Setup™* on page 35.

The machine searches for an access point that supports SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™ for 2 minutes.

Put your access point in the SecureEasySetup™ mode, Wi-Fi Protected Setup™ mode or AOSS™ mode, depending on what is supported by your access point. Please refer to the instruction manual that came with your access point.

If the LCD shows **Connected**, the machine has successfully connected to your router or access point. You can now use your machine in a wireless network.

- If the LCD shows **Setting WLAN**, **Connecting WLAN**, then **Connection Failed**, the machine has not successfully connected to your router or access point. Try starting from 10 again. If the same message is indicated again, reset the machine back to the default factory settings and try again. For resetting, see *Restoring the network settings to factory default* on page 124.
- If the LCD shows **Setting WLAN**, then **Connection Failed** or **Incorrect Mode**, a session overlap was detected (see the table below). The machine has detected more than one router or access point on your network that has the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled. Make sure that only one router or access point has the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled and try starting from 10 again.

**LCD messages when using the SES/WPS/AOSS control panel menu**

<table>
<thead>
<tr>
<th>LCD shows</th>
<th>Connection status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Setting WLAN</strong></td>
<td>Searching or accessing the access point, and downloading settings from the access point.</td>
<td>—</td>
</tr>
<tr>
<td><strong>Connecting SES</strong></td>
<td>Connecting to the access point.</td>
<td>—</td>
</tr>
<tr>
<td><strong>Connecting WPS</strong></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td><strong>Connecting AOSS</strong></td>
<td></td>
<td>—</td>
</tr>
<tr>
<td><strong>Connected</strong></td>
<td>Connection succeeded.</td>
<td>—</td>
</tr>
<tr>
<td><strong>Connection Failed</strong></td>
<td>Connection failed. (If this is shown after the LCD shows <strong>Connecting SES</strong>, <strong>Connecting WPS</strong> or <strong>Connecting AOSS</strong>.)</td>
<td>1 Try starting 10 again. 2 If the same message continues, reset the machine back to the factory settings and try again.</td>
</tr>
<tr>
<td><strong>Incorrect Mode</strong></td>
<td>A session overlap was detected.</td>
<td>Check that only one router or access point has the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled and try starting from 10 again.</td>
</tr>
</tbody>
</table>
Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)

14 Click Finish.

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.
Configuration in Ad-hoc Mode

Before configuring the wireless settings

**IMPORTANT**

- If you have previously configured the wireless settings of the machine, you must reset the network LAN settings before you can configure the wireless settings again. Use **Menu, ▲ or ▼** to choose **Network**, press **OK**. Press ▲ or ▼ to choose **Factory Reset**, press **OK**. Choose **Yes** to accept the change. For Touchscreen models, press **MENU, Network, ▲ or ▼ to display Factory Reset** then press **Factory Reset**, and choose **Yes** to accept the change. The machine will restart automatically.

- If you are using Windows® Firewall or a firewall function of anti-spyware or antivirus applications, temporarily disable them. Once you are sure that you can print, configure the software settings following the instructions again.

<table>
<thead>
<tr>
<th>Item</th>
<th>Example</th>
<th>Record the current wireless network settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication mode: (Ad-hoc)</td>
<td>Ad-hoc</td>
<td></td>
</tr>
<tr>
<td>Network name: (SSID / ESSID)</td>
<td>HELLO</td>
<td></td>
</tr>
<tr>
<td>Authentication method: (Open system)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Encryption mode: (None / WEP)</td>
<td>WEP</td>
<td></td>
</tr>
<tr>
<td>Network key: (Encryption key, WEP key)</td>
<td>12345</td>
<td></td>
</tr>
</tbody>
</table>

Configure the wireless settings

1. Turn on the machine by plugging in the power cord.
2. Press **Menu**.
   - Press ▲ or ▼ to choose **Network**, press **OK**.
   - Press ▲ or ▼ to choose **Network I/F**, press **OK**.
   - Choose **WLAN**.

   (*For Touchscreen models*)
   - Press **MENU**. Press **Network**. Press **Network I/F** and then press **WLAN**.
3. Turn on your computer.
   Close any applications running before configuration.
4. Put the supplied CD-ROM into your CD-ROM drive. The opening screen will appear automatically. If the model name screen appears, choose your machine. If the language screen appears, choose your language.
The CD-ROM main menu will appear. Click **Initial Installation** or **Advanced**.

**Note**

- If this window does not appear, use Windows® Explorer to run the start.exe program from the root folder of the Brother CD-ROM.
- The screen on your machine may vary depending on your region.

Click **Wireless LAN Setup Wizard**.
Choose **Step by Step install (Recommended)** and then click **Next**.

Choose **Without cable (Advanced)** and then click **Next**.

Read the **Important Notice**. Check the box after you confirm the wireless setting is enabled, and then click **Next**.
You need to temporarily change your PC’s wireless settings. Please follow the on-screen instructions. Please make sure you take notes on all the settings such as SSID or channel of your PC. You will need them to return your PC back to its original wireless settings.

To communicate with the un-configured wireless machine, temporarily change the wireless settings on your PC to match machine’s default settings shown on this screen. Click Next.
Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)

**Note**

- If a message to restart your PC appears after the wireless settings have been changed, restart your PC and then go back to step 4 and continue with the install skipping steps 9, 10 and 11.

- For Windows Vista® users:
  You can temporarily change the wireless settings on your computer, following the steps below:

  1. Click the **Start** button and then **Control Panel**.
  2. Click **Network and Internet** and then **Network and Sharing Center** icon.
  3. Click **Connect to a network**.
  4. You can see the SSID of the wireless Brother machine in the list. Choose **SETUP** and click **Connect**.
  5. Click **Connect Anyway** and then **Close**.
  6. Click **View status** of **Wireless Network Connection (SETUP)**.
  7. Click **Details...** and check the **Network Connection Details**. It may take a few minutes to change from 0.0.0.0 to 169.254.x.x IP address to be shown on screen (where x.x. are numbers between 1 and 254).

- For Windows® XP SP2 users you can temporarily change the wireless settings on your PC, following the steps below:

  1. Click **Start** and then **Control Panel**.
  2. Click **Network Connections** icon.
  3. Choose and right click **Wireless Network Connection**. Click **View Available Wireless Networks**.
  4. You can see the Brother wireless machine in the list. Choose **SETUP** and click **Connect**.
  5. Check the **Wireless Network Connection** status. It may take a few minutes to change from 0.0.0.0. to 169.254.x.x IP address to be shown on screen (where x.x. are numbers between 1 and 254).

Choose the machine you wish to configure, and click **Next**. If the list is blank, check if the machine is powered on, and then click **Refresh**.
The default Node name is “BRWxxxxxxxxxxxx” (where “xxxxxxxxxxxx” is your Ethernet address).

The wizard will search for wireless networks available from your machine. Choose the Ad-hoc network you wish to associate the machine with, and then click Next.

- If the list is blank, check if the machine is within range for wireless communication. Then, click Refresh.
- If your target Ad-hoc network does not appear on the list, you can manually add it by clicking the Add button. Check This is an Ad-hoc network and there is no access point., and then enter the Name (SSID) and the Channel number, and then click Next.

If your network is not configured for Authentication and Encryption, the following screen will appear. To continue configuration, click OK and go to 16.
If your network is configured for Authentication and Encryption, the following screen will appear. When configuring your Brother wireless machine, you must ensure that it is configured to match the Authentication and Encryption settings of your existing wireless network. Choose the Authentication Method and Encryption Mode from the pull-downs in each setting box. Then enter the Network Key and click Next.

![Wireless Device Setup Wizard](image)

**Note**

- If you want to setup or configure additional WEP key indexes other than WEP key1, click Advanced.
- If you do not know the Authentication or Encryption settings for your network, contact your network administrator.
- If your wireless settings fail, an error message will appear during the installation of MFL-Pro Suite and the installation will be terminated. If you encounter this failure, go to step 1 on page 50 and setup the wireless connection again.
- If you are using WEP and the LCD displayed ‘Connected’ but your machine is not found, make sure you entered the WEP key correctly. The WEP key is case sensitive.

Click Next. The settings will be sent to your machine. The settings will remain unchanged if you click Cancel.

![Wireless Device Setup Wizard](image)

**Note**

If you want to manually enter the IP address settings of your machine, click Change IP Address and enter the necessary IP address settings for your network.
To communicate with the configured wireless device, you must configure your computer to use the same wireless settings. Manually change the wireless settings on your computer to match the machine’s wireless settings shown on this screen. Check the box after you confirm these settings, and then click Next. (The settings shown on this screen are for example only. Your settings will not be the same.)

Click Finish.

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Install MFL-Pro Suite or Initial Installation / Install MFL-Pro Suite from the CD-ROM menu.
5

Wireless Configuration for Macintosh® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)

IMPORTANT

• The following instructions will install your Brother machine in a network environment using the Brother installer application for Macintosh® found on the CD-ROM we have provided with the machine.

• You can also setup your Brother machine using the machine’s control panel which we recommend. You can find instructions in the supplied Quick Setup Guide or see Configuring your machine for a wireless network (Not available for MFC-5490CN and MFC-5890CN) on page 18.

• If you are going to connect your Brother machine to your network, we recommend that you contact your system administrator prior to installation. You must know your wireless network settings before you proceed with this installation.

Configuration in Infrastructure mode

Before configuring the wireless settings

IMPORTANT

• If you have previously configured the wireless settings of the machine, you must reset the network LAN settings before you can configure the wireless settings again. Use Menu, ▲ or ▼ to choose Network, press OK. Press ▲ or ▼ to choose Factory Reset, press OK. Choose Yes to accept the change. For Touchscreen models, press MENU, Network, ▲ or ▼ to display Factory Reset then press Factory Reset, and choose Yes to accept the change. The machine will restart automatically.

• You need to temporarily use an Ethernet cable during configuration.
Configure the wireless settings

1. Turn on the machine by plugging in the power cord.
2. Turn on your Macintosh®.
3. Put the supplied CD-ROM into your CD-ROM drive. Double-click the MFL-Pro Suite icon on your desktop.
4. Double-click the Utilities.
6 Choose **Step by Step install (Recommended)** and then click **Next**.

![Wireless Device Setup Wizard](image)

7 Choose **With cable (Recommended)** and then click **Next**.

![Wireless Device Setup Wizard](image)

8 Read the **Important Notice** and click **Next**.

![Important Notice](image)
9 Temporarily connect the Brother wireless device to your access point using a network cable and click **Next**.

![Image of wireless device setup wizard](image1)

10 Choose the machine you wish to configure, and click **Next**. If the list is blank, check if the access point and the machine are powered on, and then click **Refresh**.

![Image of wireless device setup wizard with available devices](image2)

**Note**

The default Node name is “BRNxxxxxxxxxxxxx”. 

---

Wireless Configuration for Macintosh® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)
The wizard will search for wireless networks available from your machine. Choose the access point you wish to associate the machine with, and then click **Next**.

**Note**

- “SETUP” is the default SSID of the machine. Do not choose this SSID.
- If the list is blank, check that the access point has power and is broadcasting the SSID, and then see if the machine and the access point are within range for wireless communication. Then, click **Refresh**.
- If your access point is set to not broadcast the SSID you can manually add it by clicking the **Add** button. Follow the on-screen instructions for entering the **Name (SSID)**.

If your network is not configured for Authentication and Encryption, the following screen will appear. To continue installation, click **OK** and go to **4**.

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If your network is configured for Authentication and Encryption, the following screen will appear. When configuring your Brother wireless machine, you must ensure that it is configured to match the Authentication and Encryption settings of your existing wireless network. Choose the **Authentication Method** and **Encryption Mode** from the pull-downs in each setting box. Then enter the **Network Key** and click **Next**.

![Authentication Method and Encryption Mode](image)

**Note**

- If you want to setup or configure additional WEP key indexes other than WEP key1, click **Advanced**.
- If you do not know the Authentication or Encryption settings for your network, contact your network administrator.
- If your machine is not detected, go to step 1 on page 59 and setup the wireless connection again.
- If you are using WEP and the LCD displayed ‘Connected’ but your machine is not found, make sure you entered the WEP key correctly. The WEP key is case sensitive.

Click **Next**. The settings will be sent to your machine. The settings will remain unchanged if you click **Cancel**.

![Wireless Network Settings Confirmation](image)

**Note**

- If you want to manually enter the IP address settings of your machine, click **Change IP Address** and enter the necessary IP address settings for your network.
- The control panel settings will be automatically changed to **WLAN** when the wireless settings are sent to your machine.
15 Disconnect the network cable between your access point (hub or router) and the machine, and click Next.

16 Check the box after you confirm that you have completed the wireless settings, and then click Finish.

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.
Configuration using the SES/WPS/AOSS control panel menu (One-Push method)

Before configuring the wireless settings

**IMPORTANT**
If you have previously configured the wireless settings of the machine, you must reset the network LAN settings before you can configure the wireless settings again. Use Menu, ▲ or ▼ to choose Network, press OK. Press ▲ or ▼ to choose Factory Reset, press OK. Choose Yes to accept the change. For Touchscreen models, press MENU, Network, ▲ or ▼ to display Factory Reset then press Factory Reset, and choose Yes to accept the change. The machine will restart automatically.

Configure the wireless settings

1. Turn on the machine by plugging in the power cord.
2. Press Menu.
   Press ▲ or ▼ to choose Network, press OK.
   Press ▲ or ▼ to choose Network I/F, press OK.
   Choose WLAN.
(For Touchscreen models)
   Press MENU. Press Network. Press Network I/F and then press WLAN.
3. Turn on your Macintosh®.
4. Put the supplied CD-ROM into your CD-ROM drive. Double-click the MFL-Pro Suite icon on your desktop.
5. Double-click the Utilities.
6 Double-click the **Wireless Device Setup Wizard**.

7 Choose **Automatic install (Advanced)** and click Next.

8 Read the **Important Notice** and click Next.
9 Confirm the on-screen message and click **Next**.

![Setup using Automatic Wireless](image)

10 Press **Menu**, ▲ or ▼ to choose **Network** and press **OK**. Press ▲ or ▼ to choose **WLAN** and then press **OK**. Press ▲ or ▼ to choose **SES/WPS/AOSS** and press **OK**.

(For Touchscreen models)

Press **MENU**. Press **Network**. Press **WLAN** and then press **SES/WPS/AOSS**.

---

**Note**

If your wireless access point supports Wi-Fi Protected Setup™ (PIN Method) and you want to configure your machine using the PIN (Personal Identification Number) Method, see *Using the PIN Method of Wi-Fi Protected Setup™* on page 35.

11 The machine searches for an access point that supports SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™ for 2 minutes.

12 Put your access point in the SecureEasySetup™ mode, Wi-Fi Protected Setup™ mode or AOSS™ mode, depending on what is supported by your access point. Please refer to the instruction manual that came with your access point.
If the LCD shows **Connected**, the machine has successfully connected to your router or access point. You can now use your machine in a wireless network.

If the LCD shows **Setting WLAN**, **Connecting WLAN**, then **Connection Failed**, the machine has not successfully connected to your router or access point. Try starting from \( \Box \) again. If the same message is indicated again, reset the machine back to the default factory settings and try again. For resetting, see *Restoring the network settings to factory default* on page 124.

If the LCD shows **Setting WLAN**, then **Connection Failed** or **Incorrect Mode**, a session overlap was detected (see the table below). The machine has detected more than one router or access point on your network that has the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled. Make sure that only one router or access point has the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled and try starting from \( \Box \) again.

### LCD messages when using the SES/WPS/AOSS control panel menu

<table>
<thead>
<tr>
<th>LCD shows</th>
<th>Connection status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting WLAN</td>
<td>Searching or accessing the access point, and downloading settings from the access point.</td>
<td>—</td>
</tr>
<tr>
<td>Connecting SES</td>
<td>Connecting to the access point.</td>
<td>—</td>
</tr>
<tr>
<td>Connecting WPS</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Connecting AOSS</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Connected</td>
<td>Connection succeeded.</td>
<td>—</td>
</tr>
</tbody>
</table>
| Connection Failed  | Connection failed. (If this is shown after the LCD shows Connecting SES, Connecting WPS or Connecting AOSS.) | 1 Try starting \( \Box \) again.  
                            2 If the same message continues, reset the machine back to the factory settings and try again. |
| Incorrect Mode     | A session overlap was detected.                                                   | Check that only one router or access point has the Wi-Fi Protected Setup™ mode or AOSS™ mode enabled and try starting from \( \Box \) again. |

\( \Box \) Click **Finish**.

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.
Wireless Configuration for Macintosh® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN)

Configuration in Ad-hoc Mode

Before configuring the wireless settings

**IMPORTANT**

If you have previously configured the wireless settings of the machine, you must reset the network LAN settings before you can configure the wireless settings again. Use **Menu, ▲ or ▼ to choose Network, press OK. Press ▲ or ▼ to choose Factory Reset, press OK. Choose Yes to accept the change.** For **Touchscreen models, press MENU, Network, ▲ or ▼ to display Factory Reset then press Factory Reset, and choose Yes to accept the change. The machine will restart automatically.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Example</th>
<th>Record the current wireless network settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication mode: (Ad-hoc)</td>
<td>Ad-hoc</td>
<td></td>
</tr>
<tr>
<td>Network name: (SSID / ESSID)</td>
<td>HELLO</td>
<td></td>
</tr>
<tr>
<td>Authentication method: (Open system)</td>
<td>Open system</td>
<td></td>
</tr>
<tr>
<td>Encryption mode: (None / WEP)</td>
<td>WEP</td>
<td></td>
</tr>
<tr>
<td>Network key: (Encryption key, WEP key)</td>
<td>12345</td>
<td></td>
</tr>
</tbody>
</table>

Configure the wireless settings

1. Turn on the machine by plugging in the power cord.
2. Press **Menu.**
   - Press ▲ or ▼ to choose Network, press OK.
   - Press ▲ or ▼ to choose Network I/F, press OK.
   - Choose WLAN.
   
   *(For Touchscreen models)*
   - Press **MENU.** Press Network. Press Network I/F and then press WLAN.
3. Turn on your Macintosh®.
4. Put the supplied CD-ROM into your CD-ROM drive. Double-click the **MFL-Pro Suite** icon on your desktop.
5. Double-click the **Utilities**.

6. Double-click the **Wireless Device Setup Wizard**.

7. Choose **Step by Step install (Recommended)** and then click **Next**.
Choose Without cable (Advanced) and then click Next.

Read the Important Notice. Check the box after you confirm the wireless setting is enabled, and then click Next.

You need to temporarily change your computer's wireless settings. Follow the on-screen instructions. Make sure you take notes on all the settings such as SSID or channel of your computer. You will need them to return your computer back to its original wireless settings, and then click Next.
To communicate with the un-configured wireless machine, temporarily change the wireless settings on your computer to match the machine’s default settings shown on this screen. Check the box after you confirm these settings, and then click **Next**.

**Note**

You can temporarily change the wireless settings on your computer, following the steps below:

1. Click the AirPort status icon and select **Open Internet Connect**...
2. Click the Network tab to see the available wireless devices. You can see the Brother wireless print server in the **Network** option. Select **SETUP**.
3. Your wireless network is connected successfully.

Choose the machine you wish to configure, and click **Next**. If the list is blank, check if the machine is powered on, and then click **Refresh**.

**Note**

The default Node name is “BRWxxxxxxxxxxxx” (where “xxxxxxxxxxxx” is your Ethernet address).
The wizard will search for wireless networks available from your machine. Choose the Ad-hoc network you wish to associate the machine with, and then click **Next**.

**Note**

- If the list is blank, check if the machine is within range for wireless communication. Then, click **Refresh**.
- If your target Ad-hoc network does not appear on the list, you can manually add it by clicking the **Add** button. Check **This is an Ad-hoc network and there is no access point.**, and then enter the **Name (SSID)** and the **Channel** number, and then click **Next**.

If your network is not configured for Authentication and Encryption, the following screen will appear. To continue installation, click **OK** and go to **13**.

If your network is not configured for Authentication and Encryption, the following screen will appear. To continue installation, click **OK** and go to **13**.
If your network is configured for Authentication and Encryption, the following screen will appear. When configuring your Brother wireless machine, you must ensure that it is configured to match the Authentication and Encryption settings of your existing wireless network. Choose the Authentication Method and Encryption Mode from the pull-down list in each setting box. Then enter the Network Key and Confirm Network Key, and then click Next.

Note

• If you want to setup or configure additional WEP key indexes other than WEP key1, click Advanced.
• If you do not know the Authentication or Encryption settings for your network, contact your network administrator.
• If your machine is not detected, go to step 1 on page 69 and setup the wireless connection again.
• If you are using WEP and the LCD displayed 'Connected' but your machine is not found, make sure you entered the WEP key correctly. The WEP key is case sensitive.

Click Next. The settings will be sent to your machine. The settings will remain unchanged if you click Cancel.

Note

If you want to manually enter the IP address settings of your machine, click Change IP Address and enter the necessary IP address settings for your network.
To communicate with the configured wireless device, you must configure your computer to use the same wireless settings. Manually change the wireless settings on your computer to match the machine’s wireless settings shown on this screen. Check the box after you confirm these settings, and then click **Next**. (The settings shown on this screen are for example only. Your settings will not be the same.)

Click **Finish**.

You have completed the wireless network setup. If you would like to continue installing drivers and software necessary for operating your device, please choose Start Here OSX from the CD-ROM menu.
Network menu

Before using your Brother product in a network environment, you need to configure the correct TCP/IP settings.

In this chapter, you will learn how to configure the network settings using the control panel, located on the front of the machine.

The Network menu selections of the control panel allow you to set up the Brother machine for your network configuration. Press Menu, then press ▲ or ▼ to choose Network. Proceed to the menu selection you wish to configure. (See Function table and default factory settings on page 174.)

Please note that the machine is supplied with the BRAdmin Light software and Remote Setup applications for Windows® and Macintosh®, which also can be used to configure many aspects of the network. (See Using the Remote Setup to change the print server settings (Not available for DCP models) on page 17 for a wired connection or Changing the print server settings on page 15 for a wireless connection.)

TCP/IP

If you connect the machine with the Ethernet cable to your network, use the Wired LAN menu selections. If you connect the machine to a wireless Ethernet network, use the WLAN menu selections.

This menu has 10 sections: BOOT Method, IP Address, Subnet Mask, Gateway, Node Name, WINS Config, WINS Server, DNS Server, APIPA and IPv6 (For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW).

BOOT Method

This selection controls how the machine obtains an IP address. The default setting is Auto.

Note

If you do not want your print server configured via DHCP, BOOTP or RARP, you must set the BOOT Method to Static so that the print server has a static IP address. This will prevent the print server from trying to obtain an IP address from any of these systems. To change the BOOT Method, use the machine’s control panel, BRAdmin Light utility or Remote Setup.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. (For Wired) Press ▲ or ▼ to choose Wired LAN. (For Wireless) Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose TCP/IP. Press OK.
Press ▲ or ▼ to choose BOOT Method.
Press OK.

Press ◀ or ▶ to choose Auto¹, Static², RARP³, BOOTP⁴ or DHCP⁵.
Press OK.

Press Stop/Exit.

For MFC-5490CN

1 Press Menu, 5, 1, 1.
2 Press ◀ or ▶ to choose Auto¹, Static², RARP³, BOOTP⁴ or DHCP⁵.
Press OK.
3 Press Stop/Exit.

For Touchscreen models

1 Press MENU.
2 Press Network.
3 (For Wired) Press Wired LAN. (For Wireless) Press WLAN.
4 Press TCP/IP.
5 Press BOOT Method.
6 Press Auto¹, Static², RARP³, BOOTP⁴ or DHCP⁵.
7 Press Stop/Exit.

¹ Auto mode
In this mode, the machine will scan the network for a DHCP server, if it can find one, and if the DHCP server is configured to allocate an IP address to the machine, then the IP address supplied by the DHCP server will be used. If no DHCP server is available, then the machine will scan for a BOOTP server. If a BOOTP server is available, and it is configured correctly, the machine will take its IP address from the BOOTP server. If a BOOTP server is not available, the machine will scan for a RARP server. If a RARP server also does not answer, the IP Address is set using the APIPA protocol, see Using APIPA to configure the IP address on page 166. After the machine is initially powered ON, it may take a few minutes for the machine to scan the network for a server.

² Static mode
In this mode the machine's IP address must be manually assigned. Once entered the IP address is locked to the assigned address.

³ RARP mode
The Brother print server IP address can be configured using the Reverse ARP (RARP) service on your host computer. For more information on RARP, see Using RARP to configure the IP address on page 166.

⁴ BOOTP mode
BOOTP is an alternative to RARP that has the advantage of allowing configuration of the subnet mask and gateway. For more information on BOOTP, see Using BOOTP to configure the IP address on page 165.

⁵ DHCP mode (DHCP)
Dynamic Host Configuration Protocol (DHCP) is one of several automated mechanisms for IP address allocation. If you have a DHCP server in your network (typically a UNIX®, Windows® 2000/XP, Windows Vista® network) the print server will automatically obtain its IP address from a DHCP server and register its name with any RFC 1001 and 1002 compliant dynamic name services.
IP Address
This field displays the current IP address of the machine. If you have chosen a BOOT Method of Static, enter the IP address that you wish to assign to the machine (check with your network administrator for the IP address to use). If you have chosen a method other than Static, the machine will attempt to determine its IP address using the DHCP or BOOTP protocols. The default IP address of your machine will probably be incompatible with the IP address numbering scheme of your network. We recommend that you contact your network administrator for an IP address for the network the unit will be connected on.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. (For Wired) Press ▲ or ▼ to choose Wired LAN. (For Wireless) Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose TCP/IP. Press OK.
5. Press ▲ or ▼ to choose IP Address. Press OK.
6. Enter the IP address. Press OK.

Note
For DCP models, press ▲ or ▼ repeatedly to enter the first three-digit number for the IP address. Press ▶ to enter the second three-digit number. Repeat this step until you have entered the fourth three-digit number to complete the IP address. Press OK.

7. Press Stop/Exit.

For MFC-5490CN
1. Press Menu, 5, 1, 2.
2. Choose 1 to change. Enter IP address. Press OK.
3. Press Stop/Exit.
For Touchscreen models

1. Press **MENU**.
2. Press **Network**.
3. (For Wired) Press **Wired LAN**. (For Wireless) Press **WLAN**.
4. Press **TCP/IP**.
5. Press **IP Address**.
6. Enter the IP address.
7. Press **OK**.
8. Press **Stop/Exit**.

**Subnet Mask**

This field displays the current subnet mask used by the machine. If you are not using DHCP or BOOTP to obtain the subnet mask, enter the desired subnet mask. Check with your network administrator for the subnet mask to use.

1. Press **Menu**.
2. Press ▲ or ▼ to choose **Network**. Press **OK**.
3. (For Wired) Press ▲ or ▼ to choose **Wired LAN**. (For Wireless) Press ▲ or ▼ to choose **WLAN**. Press **OK**.
4. Press ▲ or ▼ to choose **TCP/IP**. Press **OK**.
5. Press ▲ or ▼ to choose **Subnet Mask**. Press **OK**.
6. Enter the Subnet Mask address. Press **OK**.

**Note**

For DCP models, press ▲ or ▼ repeatedly to enter the first three-digit number for the Subnet Mask. Press ▲ to enter the second three-digit number. Repeat this step until you have entered the fourth three-digit number to complete the Subnet Mask. Press **OK**.

7. Press **Stop/Exit**.
For MFC-5490CN

1. Press Menu, 5, 1, 3.
2. Choose 1 to change. Enter the Subnet Mask address. Press OK.
3. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press Network.
3. (For Wired) Press Wired LAN. (For Wireless) Press WLAN.
4. Press TCP/IP.
5. Press Subnet Mask.
6. Enter the Subnet Mask address. Press OK.
7. Press Stop/Exit.

Gateway

This field displays the current gateway or router address used by the machine. If you are not using DHCP or BOOTP to obtain the gateway or router address, enter the address you wish to assign. If you do not have a gateway or router, leave this field blank. Check with your network administrator if you are unsure.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. (For Wired) Press ▲ or ▼ to choose Wired LAN. (For Wireless) Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose TCP/IP. Press OK.
5. Press ▲ or ▼ to choose Gateway. Press OK.
Enter the Gateway address.
Press OK.

**Note**
For DCP models, press ▲ or ▼ repeatedly to enter the first three-digit number for the Gateway address. Press ▲ to enter the second three-digit number. Repeat this step until you have entered the fourth three-digit number to complete the Gateway address. Press OK.

Press Stop/Exit.

*For MFC-5490CN*
1. Press Menu, 5, 1, 4.
2. Select 1 to change. Enter the Gateway address.
Press OK.
3. Press Stop/Exit.

*For Touchscreen models*
1. Press MENU.
2. Press Network.
3. (For Wired) Press Wired LAN.
   (For Wireless) Press WLAN.
4. Press TCP/IP.
5. Press ▲ or ▼ to display Gateway and then press Gateway.
6. Enter the Gateway address.
Press OK.
7. Press Stop/Exit.
Node Name

You can register the machine name on the Network. This name is often referred to as a NetBIOS name; it will be the name that is registered by the WINS server on your network. Brother recommends the name BRNxxxxxxxxxxxx for a wired network or BRWxxxxxxxxxxxx for a wireless network (where xxxxxxxxxxxx is your machine’s Ethernet address) (up to 15 characters).

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. (For Wired) Press ▲ or ▼ to choose Wired LAN. (For Wireless) Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose TCP/IP. Press OK.
5. Press ▲ or ▼ to choose Node Name. Press OK.
6. Enter the Node Name. Press OK.

Note

DCP models cannot change the Node Name from the control panel menu.

7. Press Stop/Exit.

For MFC-5490CN

1. Press Menu, 5, 1, 5.
2. Select 1 to change. Enter the Node Name. Press OK.
3. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press Network.
3. (For Wired) Press Wired LAN. (For Wireless) Press WLAN.
4. Press TCP/IP.
5. Press ▲ or ▼ to display Node Name and then press Node Name.
6. Enter the Node Name. Press OK.
7. Press Stop/Exit.
WINS Config

This selection controls how the machine obtains the IP address of the WINS server.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. (For Wired) Press ▲ or ▼ to choose Wired LAN. (For Wireless) Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose TCP/IP. Press OK.
5. Press ▲ or ▼ to choose WINS Config. Press OK.
6. Press ◄ or ► to choose Auto or Static. Press OK.
7. Press Stop/Exit.

For MFC-5490CN

1. Press Menu, 5, 1, 6.
2. Press ▲ or ▼ to choose Auto or Static. Press OK.
3. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press Network.
3. (For Wired) Press Wired LAN. (For Wireless) Press WLAN.
4. Press TCP/IP.
5. Press ▲ or ▼ to display WINS Config and then press WINS Config.
6. Press Auto or Static.
7. Press Stop/Exit.
Control panel setup

Auto
Automatically uses a DHCP request to determine the IP addresses for the primary and secondary WINS servers. You must set the BOOT Method to Auto or DHCP for this feature to work.

Static
Uses a specified IP address for the primary and secondary WINS servers.

WINS Server

Primary WINS Server IP Address
This field specifies the IP address of the primary WINS (Windows® Internet Name Service) server. If set to a non-zero value, the machine will contact this server to register its name with the Windows® Internet Name Service.

Secondary WINS Server IP Address
This field specifies the IP address of the secondary WINS server. It is used as a backup to the Primary WINS server address. If the Primary server is unavailable, the machine still can register itself with a secondary server. If set to a non-zero value, the machine will contact this server to register its name with the Windows® Internet Name Service. If you have a primary WINS server, but no secondary WINS server, simply leave this field blank.

1 Press Menu.
2 Press ▲ or ▼ to choose Network. Press OK.
3 (For Wired) Press ▲ or ▼ to choose Wired LAN. (For Wireless) Press ▲ or ▼ to choose WLAN. Press OK.
4 Press ▲ or ▼ to choose TCP/IP. Press OK.
5 Press ▲ or ▼ to choose WINS Server. Press OK.
6 Press ▲ or ▼ to choose Primary or Secondary. Press OK.
7 Enter the WINS Server address. Press OK.

Note
For DCP models, press ▲ or ▼ repeatedly to enter the first three-digit number for the WINS Server address. Press ▼ to enter the second three-digit number. Repeat this step until you have entered the fourth three-digit number to complete the WINS Server address. Press OK.

8 Press Stop/Exit.
For MFC-5490CN

1. Press Menu, 5, 1, 7.
2. Press ▲ or ▼ to choose Primary or Secondary. Press OK.
3. Choose 1 to change. Enter the WINS Server address. Press OK.
4. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press Network.
3. (For Wired) Press Wired LAN. (For Wireless) Press WLAN.
4. Press TCP/IP.
5. Press ▲ or ▼ to display WINS Server and then press WINS Server.
6. Press Primary or Secondary.
7. Enter the WINS Server address. Press OK.
8. Press Stop/Exit.

DNS Server

Primary DNS Server IP Address
This field specifies the IP address of the primary DNS (Domain Name System) server.

Secondary DNS Server IP Address
This field specifies the IP address of the secondary DNS server. It is used as a backup to the Primary DNS server address. If the Primary server is unavailable, the machine will contact the Secondary DNS server.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. (For Wired) Press ▲ or ▼ to choose Wired LAN. (For Wireless) Press ▲ or ▼ to choose WLAN. Press OK.
**Control panel setup**

4. Press ▲ or ▼ to choose TCP/IP.  
   Press OK.

5. Press ▲ or ▼ to choose DNS Server.  
   Press OK.

6. Press ▲ or ▼ to choose Primary or Secondary.  
   Press OK.

7. Enter the DNS Server address.  
   Press OK.

![Note](image)

For DCP models, press ▲ or ▼ repeatedly to enter the first three-digit number for the DNS Server address.  
Press ▼ to enter the second three-digit number. Repeat this step until you have entered the fourth three-digit number to complete the DNS Server address. Press OK.

8. Press Stop/Exit.

**For MFC-5490CN**

1. Press Menu, 5, 1, 8.

2. Press ▲ or ▼ to choose Primary or Secondary.  
   Press OK.

3. Choose 1 to change. Enter the DNS Server address.  
   Press OK.

4. Press Stop/Exit.

**For Touchscreen models**

1. Press MENU.

2. Press Network.

3. (For Wired) Press Wired LAN.  
   (For Wireless) Press WLAN.

4. Press TCP/IP.

5. Press ▲ or ▼ to display DNS Server and then press DNS Server.

6. Press Primary or Secondary.

7. Enter the DNS Server address.  
   Press OK.

8. Press Stop/Exit.
APIPA

The setting of On will cause the print server to automatically allocate a Link-Local IP address in the range (169.254.1.0 - 169.254.254.255) when the print server cannot obtain an IP address through the BOOT Method you have set (see BOOT Method on page 76). Choosing Off means the IP address doesn’t change, when the print server cannot obtain an IP address through the BOOT Method you have set.

1. Press Menu.
2. Press ▲ or ▼ to choose Network.
   Press OK.
3. (For Wired) Press ▲ or ▼ to choose Wired LAN.
   (For Wireless) Press ▲ or ▼ to choose WLAN.
   Press OK.
4. Press ▲ or ▼ to choose TCP/IP.
   Press OK.
5. Press ▲ or ▼ to choose APIPA.
   Press OK.
6. Press ◀ or ▶ to choose On or Off.
   Press OK.
7. Press Stop/Exit.

For MFC-5490CN

1. Press Menu, 5, 1, 9.
2. Press ▲ or ▼ to choose On or Off.
   Press OK.
3. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press Network.
3. (For Wired) Press Wired LAN.
   (For Wireless) Press WLAN.
4. Press TCP/IP.
5. Press ▲ or ▼ to display APIPA and then press APIPA.
6. Press On or Off.
7. Press Stop/Exit.
IPv6 (For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW)

This machine is compatible with IPv6, the next generation internet protocol. If you want to use the IPv6 protocol, choose On. The default setting for IPv6 is Off. For more information on the IPv6 protocol, visit http://solutions.brother.com.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. (For Wired) Press ▲ or ▼ to choose Wired LAN.
   (For Wireless) Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose TCP/IP. Press OK.
5. Press ▲ or ▼ to choose IPv6. Press OK.
6. Press ◄ or ► to choose On or Off. Press OK.
7. Press Stop/Exit.

For MFC-5490CN

1. Press Menu, 5, 1, 0.
2. Press ▲ or ▼ to choose On or Off. Press OK.
3. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press Network.
3. (For Wired) Press Wired LAN.
   (For Wireless) Press WLAN.
4. Press TCP/IP.
5. Press ▲ or ▼ to display IPv6 and then press IPv6.
6. Press On or Off.
7. Press Stop/Exit.
Setup Misc. (MFC-5490CN only)

Ethernet
Ethernet link mode. Auto allows the print server to operate in 100BaseTX full or half duplex, or in 10BaseT full or half duplex mode by auto negotiation.

You can fix the server link mode to 100BASE-TX Full Duplex (100B-FD) or Half Duplex (100B-HD) and 10BASE-T Full Duplex (10B-FD) or Half Duplex (10B-HD). This change is valid after the print server has been reset (default is Auto).

Note
If you incorrectly set this value, you may not be able to communicate with your print server.

1. Press Menu, 5, 2, 1.
2. Press ▲ or ▼ to choose Auto, 100B-FD, 100B-HD, 10B-FD or 10B-HD.
3. Press OK.
4. Press Stop/Exit.

Setup Wizard (wireless network only)
The Setup Wizard guides you through the wireless network configuration. For more information, see Using the Setup Wizard from the control panel on page 27.

SES/WPS/AOSS (wireless network only)
If your wireless access point supports either SecureEasySetup™, Wi-Fi Protected Setup™ (PBC 1) or AOSS™, you can configure the machine easily without a computer. Your Brother machine has the SES/WPS/AOSS menu on the control panel. This feature automatically detects which mode your access point uses, SecureEasySetup™, Wi-Fi Protected Setup™ or AOSS™. By pushing a button on the wireless LAN router / access point and the machine, you can setup the wireless network and security settings. See the user’s guide for your wireless LAN router / access point for instructions on how to access one-push mode. (See Using the SES/WPS/AOSS control panel menu to configure your machine for a wireless network on page 31.)

1 Push Button Configuration

WPS w/PIN code (wireless network only)
If your wireless access point supports Wi-Fi Protected Setup™ (PIN Method), you can configure the machine easily without a computer. The PIN (Personal Identification Number) Method is one of the connection methods developed by the Wi-Fi Alliance. By inputting a PIN which is created by an Enrollee (your machine) to the Registrar (a device that manages the wireless LAN), you can setup the wireless network and security settings. See the user’s guide for your wireless LAN router / access point for instructions on how to access the Wi-Fi Protected Setup™ mode. (See Using the PIN Method of Wi-Fi Protected Setup™ on page 35.)
WLAN Status (wireless network only)

Status
This field displays the current wireless network status; *Active*(11b), *Active*(11g), or Connection Failed.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose WLAN Status. Press OK.
5. Press ▲ or ▼ to choose Status. Press OK.
6. The current wireless network status will be displayed; *Active*(11b), *Active*(11g), or Connection Failed.
7. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press Network.
3. Press WLAN.
4. Press ▲ or ▼ to display WLAN Status and then press WLAN Status.
5. The current wireless network status will be displayed; *Active*(11b), *Active*(11g), or Connection Failed.
6. Press Stop/Exit.
Signal
This field displays the current wireless network signal strength; Strong, Medium, Weak or None.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose WLAN Status. Press OK.
5. Press ▲ or ▼ to choose Signal. Press OK.
6. The current wireless network signal strength will be displayed; Strong, Medium, Weak or None.
7. Press Stop/Exit.

For Touchscreen models
1. Press MENU.
2. Press Network.
3. Press WLAN.
4. Press ▲ or ▼ to display WLAN Status and then press WLAN Status.
5. The current wireless network signal strength will be displayed; Strong, Medium, Weak or None.
6. Press Stop/Exit.
SSID
This field displays the current wireless network SSID. The display shows up to 32 characters of the SSID name.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose WLAN Status. Press OK.
5. Press ▲ or ▼ to choose SSID. Press OK.
6. The current wireless network SSID will be displayed.
7. Press Stop/Exit.

For Touchscreen models
1. Press MENU.
2. Press Network.
3. Press WLAN.
4. Press ▲ or ▼ to display WLAN Status and then press WLAN Status.
5. The current wireless network SSID will be displayed.
6. Press Stop/Exit.
Comm.Mode
This field displays the current wireless network communication mode; Ad-hoc or Infrastructure.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose WLAN. Press OK.
4. Press ▲ or ▼ to choose WLAN Status. Press OK.
5. Press ▲ or ▼ to choose Comm. Mode. Press OK.
6. The current wireless network communication mode will be displayed; Ad-hoc or Infrastructure.
7. Press Stop/Exit.

For Touchscreen models
1. Press MENU.
2. Press Network.
3. Press WLAN.
4. Press ▲ or ▼ to display WLAN Status and then press WLAN Status.
5. Press ▲ or ▼ to display Comm. Mode.
6. The current wireless network communication mode will be displayed; Ad-hoc or Infrastructure.
7. Press Stop/Exit.
Ethernet (wired network only)

Ethernet link mode. Auto allows the print server to operate in 100BaseTX full or half duplex, or in 10BaseT full or half duplex mode by auto negotiation.

You can fix the server link mode to 100BASE-TX Full Duplex (100B-FD) or Half Duplex (100B-HD) and 10BASE-T Full Duplex (10B-FD) or Half Duplex (10B-HD). This change is valid after the print server has been reset (default is Auto).

**Note**
If you incorrectly set this value, you may not be able to communicate with your print server.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose Wired LAN. Press OK.
4. Press ▲ or ▼ to choose Ethernet. Press OK.
5. Press ◀ or ▶ to choose Auto/100B-FD/100B-HD/10B-FD/10B-HD. Press OK.
6. Press Stop/Exit.

**For Touchscreen models**

1. Press MENU.
2. Press Network.
3. Press Wired LAN.
4. Press Ethernet.
5. Press Auto/100B-FD/100B-HD/10B-FD/10B-HD.
6. Press Stop/Exit.
E-mail/I-FAX (For MFC-6490CW and MFC-6890CDW)

This menu has five selections: Mail Address, Setup Server, Setup Mail RX, Setup Mail TX, and Setup Relay. These settings must be configured for the I-Fax feature to work. For more details about Internet fax, see *Internet fax and Scan to E-mail (For MFC-6490CW and MFC-6890CDW)* on page 141.

You can access the character you want by repeatedly pressing the appropriate number key using the machine’s control panel. For more information, see *Entering Text* on page 179.

**Mail Address**

1. Press **Menu**.
2. Press ▲ or ▼ to choose **Network**. Press **OK**.
3. Press ▲ or ▼ to choose **E-mail/IFAX**. Press **OK**.
4. Press ▲ or ▼ to choose **Mail Address**. Press **OK**.
5. Press **Clear/Back** to delete default address, then enter the mail address. Press **OK**.
6. Press **Stop/Exit**.

**For Touchscreen models**

1. Press **MENU**.
2. Press ▲ or ▼ to choose **Network**.
3. Press ▲ or ▼ to choose **E-mail/IFAX**.
4. Press ▲ or ▼ to choose **Mail Address**.
5. Enter the mail address. Press **OK**.
6. Press **Stop/Exit**.
Setup Server

SMTP Server
This field displays the node name or IP address of an SMTP mail server (outgoing E-mail server) on your network.
(Ex, “mailhost.brothermail.net” or “192.000.000.001”)

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4. Press ▲ or ▼ to choose Setup Server. Press OK.
5. Press ▲ or ▼ to choose SMTP Server. Press OK.
6. Press ▲ or ▼ to choose Name or IP Address. Press OK.
7. Enter the SMTP server name or IP address. Press OK.
8. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Server.
5. Press ▲ or ▼ to choose SMTP Server. Choose Name (your SMTP server name) or IP Address.
6. Enter the SMTP server name or IP address. Press OK.
7. Press Stop/Exit.
SMTP Port
This field displays the SMTP port number (for outgoing E-mails) on your network.

1. Press Menu.
2. Press ▲ or ▼ to choose Network.
   Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX.
   Press OK.
4. Press ▲ or ▼ to choose Setup Server.
   Press OK.
5. Press ▲ or ▼ to choose SMTP Port.
   Press OK.
6. Enter the SMTP port number.
   Press OK.
7. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Server.
5. Press ▲ or ▼ to choose SMTP Port.
6. Enter the SMTP port number.
   Press OK.
7. Press Stop/Exit.
Auth. for SMTP
You can specify the security method for E-mail notification. For details on security methods for E-mail notification, see Security methods for E-mail notification on page 153.

1 Press Menu.
2 Press ▲ or ▼ to choose Network. Press OK.
3 Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4 Press ▲ or ▼ to choose Setup Server. Press OK.
5 Press ▲ or ▼ to choose Auth. for SMTP. Press OK.
6 Press ▲ or ▼ to choose None, SMTP-AUTH or POP bef.SMTP. Press OK.

If you chose None or POP bef.SMTP in 6, go to 11.
If you chose SMTP-AUTH in 6, go to 8.
7 Enter the account name for SMTP authentication. Press OK.
8 Enter the account password for SMTP authentication. Press OK.
9 Enter the account password again. Press OK.
10 Press Stop/Exit.

For Touchscreen models
1 Press MENU.
2 Press ▲ or ▼ to choose Network.
3 Press ▲ or ▼ to choose E-mail/IFAX.
4 Press ▲ or ▼ to choose Setup Server.
5 Press ▲ or ▼ to choose Auth. for SMTP.
6 Press None, SMTP-AUTH or POP bef.SMTP.
7 If you chose None or POP bef.SMTP in 6, go to 11.
If you chose SMTP-AUTH in 6, go to 8.
8 Enter the account name for SMTP authentication. Press OK.
Control panel setup

9. Enter the account password for SMTP authentication.  
   Press OK.

10. Enter the account password again.  
    Press OK.

11. Press Stop/Exit.

**POP3 Server**

This field displays the node name or IP address of the POP3 server (incoming E-mail server) used by the Brother machine. This address is necessary for the Internet fax features to function correctly.  
(Ex, “mailhost.brothermail.net” or “192.000.000.001”)

1. Press Menu.

2. Press ▲ or ▼ to choose Network.  
   Press OK.

3. Press ▲ or ▼ to choose E-mail/IFAX.  
   Press OK.

4. Press ▲ or ▼ to choose Setup Server.  
   Press OK.

5. Press ▲ or ▼ to choose POP3 Server.  
   Press OK.

6. Press ▲ or ▼ to choose Name or IP Address.  
   Press OK.

7. Enter the POP3 server name or IP address.  
   Press OK.

8. Press Stop/Exit.

**For Touchscreen models**

1. Press MENU.

2. Press ▲ or ▼ to choose Network.  

3. Press ▲ or ▼ to choose E-mail/IFAX.  

4. Press ▲ or ▼ to choose Setup Server.  

5. Press ▲ or ▼ to choose POP3 Server.  

6. Choose Name (your POP3 server name) or IP Address.  

7. Enter the POP3 server name or IP address.  
   Press OK.

8. Press Stop/Exit.
**POP3 Port**
This field displays the POP3 port number (for incoming E-mails) used by the Brother machine.

1. Press **Menu**.
2. Press ▲ or ▼ to choose Network. Press **OK**.
3. Press ▲ or ▼ to choose E-mail/IFAX. Press **OK**.
4. Press ▲ or ▼ to choose Setup Server. Press **OK**.
5. Press ▲ or ▼ to choose POP3 Port. Press **OK**.
6. Enter the POP3 port number. Press **OK**.
7. Press **Stop/Exit**.

**For Touchscreen models**

1. Press **MENU**.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Server.
5. Press ▲ or ▼ to choose POP3 Port.
6. Enter the POP3 port number. Press **OK**.
7. Press **Stop/Exit**.
Mailbox Name
You can specify a mailbox name on the POP3 server where the internet print jobs are to be retrieved.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4. Press ▲ or ▼ to choose Setup Server. Press OK.
5. Press ▲ or ▼ to choose Mailbox Name. Press OK.
6. Enter the user account name assigned to the Brother machine that will login to the POP3 server. Press OK.
7. Press Stop/Exit.

For Touchscreen models
1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Server.
5. Press ▲ or ▼ to choose Mailbox Name.
6. Enter the user account name assigned to the Brother machine that will login to the POP3 server. Press OK.
7. Press Stop/Exit.
Mailbox Pwd

You can specify the password for the POP3 server account where the internet print jobs are to be retrieved.

1. Press Menu.
2. Press ▲ or ▼ to choose Network.
   Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX.
   Press OK.
4. Press ▲ or ▼ to choose Setup Server.
   Press OK.
5. Press ▲ or ▼ to choose Mailbox Pwd.
   Press OK.
6. Enter the user password assigned to the machine that will login to the POP3 server. Please note that
   this password is case sensitive.
   Press OK.
7. Enter the password again.
   Press OK.
8. Press Stop/Exit.

Note

To set for no password, enter a single space.

For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Server.
5. Press ▲ or ▼ to choose Mailbox Pwd.
6. Enter the user password assigned to the machine that will login to the POP3 server. Please note that
   this password is case sensitive.
   Press OK.
7. Enter the password again.
   Press OK.
8. Press Stop/Exit.
APOP
You can enable or disable the APOP (Authenticated Post Office Protocol).

1. Press Menu.
2. Press ▲ or ▼ to choose Network.
   Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX.
   Press OK.
4. Press ▲ or ▼ to choose Setup Server.
   Press OK.
5. Press ▲ or ▼ to choose APOP.
   Press OK.
6. Press ▲ or ▼ to choose On or Off.
   Press OK.
7. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Server.
5. Press ▲ or ▼ to choose APOP.
6. Press On or Off.
7. Press Stop/Exit.
Setup Mail RX
This menu has five selections: Auto Polling, Poll Frequency, Header, Del Error Mail and Notification.

Auto Polling
When set to On, the machine automatically checks the POP3 server for new messages.

Poll Frequency
Sets the interval for checking for new messages on the POP3 server (default is 10Min(s)).

1 Press Menu.
2 Press ▲ or ▼ to choose Network. Press OK.
3 Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4 Press ▲ or ▼ to choose Setup Mail RX. Press OK.
5 Press ▲ or ▼ to choose Auto Polling.
6 Press ◀ or ► to choose On or Off. Press OK.
7 Press Stop/Exit.

1 Press Menu.
2 Press ▲ or ▼ to choose Network. Press OK.
3 Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4 Press ▲ or ▼ to choose Setup Mail RX. Press OK.
5 Press ▲ or ▼ to choose Poll Frequency.
6 Enter the polling frequency. Press OK.
7 Press Stop/Exit.
For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Mail RX.
5. Press ▲ or ▼ to choose Auto Polling.
6. Press On or Off.
   If you choose On, go to 7.
   If you choose Off, go to 8.

7. Choose 1Min, 3Mins, 5Mins, 10Mins, 30Mins or 60Mins.
8. Press Stop/Exit.
Header
This selection allows the contents of the mail header to be printed when the received message is printed.

1. Press Menu.
2. Press ▲ or ▼ to choose Network.
   Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX.
   Press OK.
4. Press ▲ or ▼ to choose Setup Mail RX.
   Press OK.
5. Press ▲ or ▼ to choose Header.
6. Press ▼ or ▲ to choose All, Subject+From+To or None.
   Press OK.
7. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Mail RX.
5. Press ▲ or ▼ to choose Header.
6. Press to choose All, Subject+From+To or None.
7. Press Stop/Exit.
Del Error Mail
When set to On, the machine automatically deletes error mails that the machine cannot receive from the POP server.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4. Press ▲ or ▼ to choose Setup Mail RX. Press OK.
5. Press ▲ or ▼ to choose Del Error Mail.
6. Press ▼ or ▲ to choose On or Off. Press OK.
7. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Mail RX.
5. Press ▲ or ▼ to choose Del Error Mail.
6. Press On or Off.
7. Press Stop/Exit.
**Notification**

The notification feature allows a confirmation of receipt message to be transmitted to the sending station when the I-Fax has been received.

This feature only works on I-Fax machines that support the "MDN" specification.

1. Press **Menu**.
2. Press ▲ or ▼ to choose **Network**. Press **OK**.
3. Press ▲ or ▼ to choose **E-mail/IFAX**. Press **OK**.
4. Press ▲ or ▼ to choose **Setup Mail RX**. Press **OK**.
5. Press ▲ or ▼ to choose **Notification**.
6. Press ▶ or ▲ to choose **On, MDN or Off**. Press **OK**.
7. Press **Stop/Exit**.

**For Touchscreen models**

1. Press **MENU**.
2. Press ▲ or ▼ to choose **Network**.
3. Press ▲ or ▼ to choose **E-mail/IFAX**.
4. Press ▲ or ▼ to choose **Setup Mail RX**.
5. Press ▲ or ▼ to choose **Notification**.
6. Press **On, MDN or Off**.
7. Press **Stop/Exit**.
Setup Mail TX

This menu has three selections: Sender Subject, Size Limit and Notification.

Sender Subject

This field displays the subject that is attached to the Internet fax data being sent from the Brother machine to a computer (default is "Internet Fax Job").

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4. Press ▲ or ▼ to choose Setup Mail TX. Press OK.
5. Press ▲ or ▼ to choose Sender Subject.
6. Enter the subject information. Press OK.
7. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Mail TX.
5. Press ▲ or ▼ to choose Sender Subject.
6. Enter the subject information. Press OK.
7. Press Stop/Exit.
**Size Limit**

Some E-mail servers do not allow you to send large E-mail documents (the System Administrator will often place a limit on the maximum E-mail size). With this function enabled, the machine will display **Out of Memory** when trying to send E-mail documents over 1 Mbyte in size. The document will not be sent and an error report will be printed. The document you are sending should be separated into smaller documents that will be accepted by the mail server. (For your information, a 42 page document based on the ITU-T Test Chart #1 test chart is approximately 1 Mbyte in size.)

1. Press **Menu**.
2. Press ▲ or ▼ to choose **Network**.
   Press **OK**.
3. Press ▲ or ▼ to choose **E-mail/IFAX**.
   Press **OK**.
4. Press ▲ or ▼ to choose **Setup Mail TX**.
   Press **OK**.
5. Press ▲ or ▼ to choose **Size Limit**.
6. Press ◄ or ► to choose **On** or **Off**.
   Press **OK**.
7. Press **Stop/Exit**.

**For Touchscreen models**

1. Press **MENU**.
2. Press ▲ or ▼ to choose **Network**.
3. Press ▲ or ▼ to choose **E-mail/IFAX**.
4. Press ▲ or ▼ to choose **Setup Mail TX**.
5. Press ▲ or ▼ to choose **Size Limit**.
6. Press **On** or **Off**.
7. Press **Stop/Exit**.
Notification
The notification feature allows a confirmation of receipt message to be transmitted to the sending station when the I-Fax has been received.
This feature only works on I-Fax machines that support the "MDN" specification.

1. Press Menu.
2. Press ▲ or ▼ to choose Network.
   Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX.
   Press OK.
4. Press ▲ or ▼ to choose Setup Mail TX.
   Press OK.
5. Press ▲ or ▼ to choose Notification.
6. Press ◄ or ► to choose On or Off.
   Press OK.
7. Press Stop/Exit.

For Touchscreen models
1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Mail TX.
5. Press ▲ or ▼ to choose Notification.
6. Press On or Off.
7. Press Stop/Exit.
Setup Relay
This menu has three selections: Rly Broadcast, Relay Domain and Relay Report. For more information on Relay Broadcast, see Relay broadcasting on page 145 of this User’s Guide.

Relay Broadcast
This function allows the machine to receive a document over the Internet, and then relay it to other fax machines through conventional analog landlines.

1 Press Menu.
2 Press ▲ or ▼ to choose Network. Press OK.
3 Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4 Press ▲ or ▼ to choose Setup Relay. Press OK.
5 Press ▲ or ▼ to choose Rly Broadcast.
6 Press ◀ or ▶ to choose On or Off. Press OK.
7 Press Stop/Exit.

For Touchscreen models
1 Press MENU.
2 Press ▲ or ▼ to choose Network.
3 Press ▲ or ▼ to choose E-mail/IFAX.
4 Press ▲ or ▼ to choose Setup Relay.
5 Press ▲ or ▼ to choose Rly Broadcast.
6 Press On or Off.
7 Press Stop/Exit.
Relay Domain
You can register the Domain Names (Max. 5) that are allowed to request a Relay Broadcast.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4. Press ▲ or ▼ to choose Setup Relay. Press OK.
5. Press ▲ or ▼ to choose Relay Domain. Press OK.
6. Press ▲ or ▼ to choose Relay(01 - 05).
7. Enter the Relay Domain name for the Domain that is being allowed to request a Relay Broadcast. Press OK.
8. Press Stop/Exit.

For Touchscreen models
1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Relay.
5. Press ▲ or ▼ to choose Relay Domain.
6. Press ▲ or ▼ to choose Relay(01 - 05).
7. Enter the Relay Domain name for the Domain that is being allowed to request a Relay Broadcast. Press OK.
8. Press Stop/Exit.
Relay Report
A Relay Broadcast Report can be printed at the machine that will act as a Relay Station for all Relay Broadcasts.

Its primary function is to print reports of any relayed broadcasts that have been sent through the machine. Please note: In order to use this function, you must assign the relay domain in the “Trusted Domains” section of the Relay function settings.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose E-mail/IFAX. Press OK.
4. Press ▲ or ▼ to choose Setup Relay. Press OK.
5. Press ▲ or ▼ to choose Relay Report.
6. Press ◀ or ▶ to choose On or Off. Press OK.
7. Press Stop/Exit.

For Touchscreen models
1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose E-mail/IFAX.
4. Press ▲ or ▼ to choose Setup Relay.
5. Press ▲ or ▼ to choose Relay Report.
6. Press On or Off.
7. Press Stop/Exit.
Scan to FTP (For MFC-5890CN and MFC-6490CW)

The details required to use Scan to FTP can be entered manually at the control panel to pre-configure and store the details in an FTP Profile. You can configure up to five FTP server profiles.

**Passive Mode**

You can set Passive Mode to OFF or ON depending on your FTP server and network firewall configuration. By default this setting is ON. In most cases this setting can remain as default.

1. Press **Menu**.
2. Press ▲ or ▼ to choose **Network**.
   Press **OK**.
3. Press ▲ or ▼ to choose **Scan to FTP**.
   Press **OK**.
4. Press ▲ or ▼ to choose **Passive Mode**.
   Press **OK**.
5. Press ▼ to choose **On** or **Off**.
6. Press **Stop/Exit**.

**Port number**

You can change the port number used to access the FTP server. The default for this setting is port 21. In most cases this setting can remain as default.

1. Press **Menu**.
2. Press ▲ or ▼ to choose **Network**.
   Press **OK**.
3. Press ▲ or ▼ to choose **Scan to FTP**.
   Press **OK**.
4. Press ▲ or ▼ to choose **Port Number**.
   Press **OK**.
5. Enter the port number.
   Press **OK**.
6. Press **Stop/Exit**.
Creating a user defined File Name

In addition to the seven preset file names you can store two user defined file names that can be used for creating an FTP Server Profile.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose Scan to FTP. Press OK.
4. Press ▲ or ▼ to choose File Name1 or File Name2. Press OK.
5. Enter a file name you want to use. A maximum of 15 characters can be entered for each of the user defined names. Press OK.
6. Press Stop/Exit.

Pre-configuring your FTP profiles

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose Scan to FTP. Press OK.
4. Press ▲ or ▼ to choose Setup Profile. Press OK.
5. Press ▲ or ▼ to choose Not Registered. Press OK.
6. Press ▲ or ▼ to choose Profile Name. Press OK.
7. Enter the name that you want to use for the profile of the FTP server. This name will be displayed on the LCD of the machine and can be up to 30 characters. Press OK.
8. Press ▲ or ▼ to choose Host Address. Press OK.
9. Enter the Host Address (for example ftp.example.com) (up to 60 characters) or the IP address (for example 192.23.56.189). Press OK.
10 Press ▲ or ▼ to choose Store Directory.
   Press OK.

11 Enter the destination folder where your document will be stored on the FTP server (for example /brother/abc/) (up to 60 characters).
   Press OK.

12 Press ▲ or ▼ to choose Username.
   Press OK.

13 Enter the Username that has been registered with the FTP server for the machine (up to 32 characters).
   Press OK.

14 Press ▲ or ▼ to choose Password.
   Press OK.

15 Enter the Password for access to the FTP server (up to 32 characters).
   Press OK.

16 Press ▲ or ▼ to choose Quality.
   Press OK.

17 Press ▲ or ▼ to choose Color 150 dpi, Color 300 dpi, Color 600 dpi, B/W 200x100 dpi or B/W 200 dpi.
   Press OK.

18 Choose the file type for the document. Press ▲ or ▼ to choose File Type.
   Press OK.

19 Press ▲ or ▼ to choose PDF or JPEG for color or gray scale documents and PDF or TIFF for B/W documents.
   Press OK.

Note

For MFC-6490CW

If you are using the scanner glass of the machine, choose the document size.

• Press ▲ or ▼ to choose Glass ScanSize.

• Press ◀ or ▶ to choose Letter, Legal, Ledger, A4, or A3 for US, A4, A3, Letter, Legal or Ledger for UK.
   Press OK.

20 Press ▲ or ▼ to choose Passive Mode.

21 Press ◀ or ▶ to choose On or Off.
   Press OK.

22 Press ▲ or ▼ to choose Port Number.

23 Enter the port number.
   Press OK.
Choose the file name you want to use for the scanned document. You can choose from seven preset and two user defined File Names. The file name that will be used for your document will be the file name you selected plus the last 6 digits of the flatbed/ADF scanner counter plus the file extension (For example, BRNxxxxxxxxxxx098765.pdf). You can also manually enter a File Name up to 15 characters. 

Press ▲ or ▼ to choose File Name. 
Press OK.

Press ▲ or ▼ to choose the file name you want to use. 
Press OK.

After you have set all the settings, press ▲ or ▼ to choose Complete. 
Press OK. 
Press Stop/Exit.
Scan to FTP (For MFC-6890CDW)

The details required to use Scan to FTP can be entered manually at the control panel to pre-configure and store the details in an FTP Profile. You can configure up to five FTP server profiles.

Passive Mode
You can set Passive Mode to OFF or ON depending on your FTP server and network firewall configuration. By default this setting is ON. In most cases this setting can remain as default.

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose Scan to FTP.
4. Press ▲ or ▼ to choose Passive Mode.
5. Press to choose On or Off.
6. Press Stop/Exit.

Port number
You can change the port number used to access the FTP server. The default for this setting is port 21. In most cases this setting can remain as default.

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose Scan to FTP.
4. Press ▲ or ▼ to choose Port Number.
5. Enter the port number.
   Press OK.
6. Press Stop/Exit.

Creating a user defined File Name
In addition to the seven preset file names you can store two user defined file names that can be used for creating an FTP Server Profile.

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose Scan to FTP.
4. Press ▲ or ▼ to choose File Name1 or File Name2.
5. Enter a file name you want to use. A maximum of 15 characters can be entered for each of the user defined names.
   Press OK.
Pre-configuring your FTP profiles

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose Scan to FTP.
4. Press ▲ or ▼ to choose Setup Profile.
5. Press ▲ or ▼ to choose Not Registered.
6. Enter the name that you want to use for the profile of the FTP server. This name will be displayed on the LCD of the machine and can be up to 30 characters. Press OK.
7. Choose Name (your FTP server name) or IP Address.
8. Enter the FTP server name (for example ftp.example.com) (up to 60 characters) or the IP address (for example 192.23.56.189). Press OK.
9. Press ▲ or ▼ to choose Store Directory.
10. Enter the destination folder where your document will be stored on the FTP server (for example /brother/abc/) (up to 60 characters). Press OK.
11. Press ▲ or ▼ to choose Username.
12. Enter the Username that has been registered with the FTP server for the machine (up to 32 characters). Press OK.
13. Press ▲ or ▼ to choose Password.
14. Enter the Password for access to the FTP server (up to 32 characters). Press OK.
15. Press ▲ or ▼ to choose Quality.
16. Press to choose Color 150 dpi, Color 300 dpi, Color 600 dpi, B/W 200 dpi or B/W 200x100 dpi.
17. Choose the file type for the document. Press ▲ or ▼ to choose File Type.
18. Press to choose PDF or JPEG for color or gray scale documents and PDF or TIFF for B/W documents.

Note
If you are using the scanner glass of the machine, choose the document size.
- Press ▲ or ▼ to choose Glass ScanSize.
- Choose the document size you want.
Press ▲ or ▼ to choose Passive Mode.

Press to choose On or Off.

Press ▲ or ▼ to choose Port Number.

Enter the port number. Press OK.

Choose the file name you want to use for the scanned document. You can choose from seven preset and two user defined File Names. The file name that will be used for your document will be the file name you selected plus the last 6 digits of the flatbed/ADF scanner counter plus the file extension (For example, BRNxxxxxxxxxxx098765.pdf). You can also manually enter a File Name up to 15 characters. Press ▲ or ▼ to choose File Name.

Press ▲ or ▼ to choose the file name you want to use. Press OK.
Time Zone (For MFC-6490CW and MFC-6890CDW)

This field displays your country time zone. The time shown is the time difference between your country and Greenwich Mean Time. For example, the Time Zone for Eastern Time in the USA and Canada is UTC-05:00.

1 Press Menu.
2 Press ▲ or ▼ to choose Network.
   Press OK.
3 Press ▲ or ▼ to choose Time Zone.
   Press OK.
4 Press ▲ or ▼ to choose the time.
   Press OK.
5 Press Stop/Exit.

For Touchscreen models

1 Press MENU.
2 Press ▲ or ▼ to choose Network.
3 Press ▲ or ▼ to choose Time Zone.
4 Press your time zone.
5 Press Stop/Exit.

Windows® Time Zone setting

You can see the time difference for your country by using the Time Zone setting in Windows®.

1 For Windows Vista®:
   Click the ☐ button, Control Panel, Date and Time, and then Change time zone.
   For Windows® XP:
   Click the Start button, Control Panel, Date and Time, and then select Time Zone.
   For Windows® 2000:
   Click the Start button, Settings, Control Panel, Date/Time, and then select Time Zone.

2 Change the date and time. Verify your time zone settings from the pull-down menu (this menu displays the time difference from GMT).
Network I/F (Not available for MFC-5490CN and MFC-5890CN)

You can choose the network connection type, wired network connection or wireless network connection. If you want to use the wired network connection, choose Wired LAN, and if you want to use the wireless network connection, choose WLAN. You can only have one network connection type active at a time.

1. Press Menu.
2. Press ▲ or ▼ to choose Network.
   Press OK.
3. Press ▲ or ▼ to choose Network I/F.
   Press OK.
4. Press ▲ or ▼ to choose Wired LAN or WLAN.
   Press OK.
5. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press Network.
3. Press Network I/F.
4. Press Wired LAN or WLAN.
5. Press Stop/Exit.

LDAP (For MFC-6890CDW)

You can set the LDAP protocol to On or Off. By default this setting is Off.
For more details about LDAP, see LDAP operation (For MFC-6890CDW) on page 138.

Note

The LDAP protocol is not supported for China.

1. Press MENU.
2. Press ▲ or ▼ to choose Network.
3. Press ▲ or ▼ to choose LDAP.
4. Press to choose On or Off.
5. Press Stop/Exit.
Restoring the network settings to factory default

If you wish to reset the print server back to its default factory settings (resetting all information such as the password and IP address information), please follow these steps:

Note
This function restores all wired and wireless network settings to the factory default.

1. Press Menu.
2. Press ▲ or ▼ to choose Network. Press OK.
3. Press ▲ or ▼ to choose Factory Reset. Press OK.
4. Press 1 for Factory Reset.
5. Press 1 for Reboot.

Note
For DCP models, press + for Factory Reset and then press + for Reboot.

6. The machine will re-start. You can now reconnect the network cable and configure the network settings to work with your network.

For MFC-5490CN
1. Press Menu, 5, 0.
2. Press 1 for Factory Reset.
3. Press 1 for Reboot.
4. Press Stop/Exit.

For Touchscreen models
1. Press MENU.
2. Press Network.
3. Press ▲ or ▼ to display Factory Reset and then press Factory Reset.
4. Press Yes.
5. Press Yes for 2 seconds to confirm.
Printing the Network Configuration List

Note

- Node Name: Node Name appears in the Network Configuration List. The default Node Name is “BRNxxxxxxxxxxxx” for a wired network or “BRWxxxxxxxxxxxx” for a wireless network (“xxxxxxxxxxxx” is your machine’s Ethernet address).
- You can find the MAC address (Ethernet address) by printing the Network Configuration List.

The Network Configuration List prints a report listing the current network configuration including the network print server settings.

1. Press Menu.
2. Press ▲ or ▼ to choose Print Reports. Press OK.
3. Press ▲ or ▼ to choose Network Config. Press OK.
4. (For US) Press Black Start or Color Start. (For UK) Press Mono Start or Colour Start.

For MFC-5490CN

1. Press Menu, 6, 6.
2. (For US) Press Black Start or Color Start. (For UK) Press Mono Start or Colour Start.
3. Press Stop/Exit.

For Touchscreen models

1. Press MENU.
2. Press ▲ or ▼ to display Print Reports and then press Print Reports.
3. Press ▲ or ▼ to display Network Config and then press Network Config.
4. (For US) Press Black Start or Color Start. (For UK) Press Mono Start or Colour Start.
5. Press Stop/Exit.
Overview

The Driver Deployment Wizard software can be used to ease the installation or even automate the installation of network connected printers. The Driver Deployment Wizard can also be used to create self running executable files which when run on a remote PC, completely automate the installation of a printer driver. The remote PC does not have to be connected to a network.

Connection methods

The Driver Deployment Wizard supports the two connection methods.

Peer-to-Peer

The device is connected to the network but each user prints directly to the machine WITHOUT printing through a central queue.

1 Client Computer
2 Network Printer (your machine)
Network Shared

The device is connected to a network and a central print queue is used to manage all print jobs.

1 Client computer
2 Also known as “Server” or “Print Server”
3 TCP/IP or USB
4 Printer (your machine)

How to install the Driver Deployment Wizard software

1 Put the supplied CD-ROM into your CD-ROM drive. If the model name screen appears, choose your machine. If the language screen appears, choose your language.

2 The CD-ROM main menu will appear. Click Network Utilities or Advanced, then Network Utilities.

3 Choose the Driver Deployment Wizard installation program.

Note

For Windows Vista®, when the User Account Control screen appears, click Continue.

4 Click Next in response to the Welcome message.

5 Read the license agreement carefully. Then follow the on-screen instructions.

6 Click Finish. Now the Driver Deployment Wizard software has been installed.
Using the Driver Deployment Wizard software

1. When you run the Wizard for the first time you will see a welcome screen. Click Next.
2. Choose MFC, and then click Next.
3. Choose your connection type to the machine that you want to print to.
4. Choose the option you require, and follow the on-screen instructions.
   If you choose Brother Peer-to-Peer Network Printer, the following screen is displayed.

   ![Driver Deployment Wizard Screen]

   **Setting the IP Address**

   If the machine does not have an IP address, the Wizard will allow you to change the IP address by choosing the machine from the list and by choosing the Configure IP option. A dialog box then appears which allows you to specify information such as the IP address, subnet mask and also the gateway address.

   ![Configure TCP/IP Address]

5 Choose the machine you wish to install.
   - If the printer driver you wish to use is installed on your computer:
     Check the box of Currently installed drivers and choose the machine you wish to install, and then click Next.
   - If the driver you wish to use is not installed on your computer:
     Click Have Disk and then specify the path of the printer driver.

6 Click Next after you choose the correct driver.

7 A summary screen will appear. Confirm the settings of the driver.

- Creating an executable file

The Driver Deployment Wizard software can also be used to create self running .EXE files. These self-running .EXE files can be saved to the network, copied to a CD-ROM, a floppy disc or even E-mailed to another user. Once run, the driver and its settings are automatically installed without any user intervention.

- **Copy the Driver files to this PC and create an installation program for other users.**
  Choose this option if you wish to install the driver onto your computer and also create a self-running executable file for use with another computer using the same operating system as your own.

- **Only create an Installation Program for other users.**
  Choose this option if the driver is already installed on your computer and you wish to create a self-running executable file without installing the driver again on your own computer.
Note

If you work in a “queue” based network and you create an executable file for another user who does not have access to the same printer queue that you define into the executable file, the driver when installed on the remote computer will default to LPT1 printing.

8. Click Finish. The driver is automatically installed to your computer.
Network printing from Windows® basic
TCP/IP Peer-to-Peer printing

Overview

To connect your machine to your network, you need to follow the steps in the Quick Setup Guide. We recommend that you use the Brother installer application on the CD-ROM which we have provided with the machine. By using this application, you can easily connect your machine to your network and install the network software and printer driver which you need to complete the configuration of your machine for a network. You will be guided by the on-screen instructions until you are able to use your Brother network printer.

If you are a Windows® user and want to configure your machine without using the Brother installer application, use the TCP/IP protocol in a Peer-to-Peer environment. Please follow the instructions in this chapter. This chapter explains how to install the network software and the printer driver which you will need to be able to print using your network printer.

Note

• You must configure the IP address on your machine before you proceed with this chapter. If you need to configure the IP address, see Setting up the IP address and subnet mask on page 12 first.

• Verify the host computer and the machine are either on the same subnet, or that the router is properly configured to pass data between the two devices.

• If you are connecting to a Network Print Queue or Share (printing only), see Installation when using a Network Print Queue or Share (printer driver only) on page 169 for installation details.

• For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW, the default password is “access“. For other models, no password is required by default.
Configuring the standard TCP/IP port

Printer driver not yet installed

1. Put the supplied CD-ROM into your CD-ROM drive. If the model name screen appears, choose your machine. If the language screen appears, choose your language.

2. The CD-ROM main menu will appear. Click Initial Installation or Advanced.

3. Click Printer Driver (Only, for network).

4. Click Next in response to the Welcome message. Follow the on-screen instructions.

5. Choose Standard Installation and click Next.

6. Choose Brother Peer-to-Peer Network Printer, and then click Next.

7. Follow the on-screen instruction, and then click OK.

Note: Contact your administrator if you are not sure about the location and name of the printer on the network.

8. Continue through the Wizard clicking Finish when complete.

Printer driver already installed

If you have already installed the printer driver and wish to configure it for network printing, follow these steps:

1. For Windows Vista®:
   Click the button, Control Panel, Hardware and Sound, and then Printers.

   For Windows® XP:
   Click the Start button and choose Printers and Faxes windows.

   For Windows® 2000:
   Click the Start button and choose Settings and then Printers.

2. Right click on the printer driver you wish to configure, and then choose Properties.

3. Click the Ports tab and click Add Port.

4. Choose the port that you wish to use. Typically this would be Standard TCP/IP Port. Then click the New Port... button.

5. The Standard TCP/IP Port Wizard will start.

6. Enter the IP address of your network printer. Click Next.

7. Click Finish.

Other sources of information

See *Configuring your machine for a network with an Ethernet cable connection* on page 9 to learn how to configure the IP address of the machine.
Overview

This chapter explains how to print from a Macintosh® on a Network using the Simple Network Configuration capabilities on Mac OS® X 10.2.4 or greater.

For updated information on printing from a Macintosh®, visit the Brother Solutions Center at: http://solutions.brother.com.

How to choose the print server (TCP/IP)

For Mac OS® X 10.2.4 to 10.4.x

1. Turn on the machine by plugging in the power cord.
2. From the Go menu, choose Applications.
3. Open the Utilities folder.
4. Double-click the Printer Setup Utility Icon. (Mac OS® X 10.2.x users, click the Print Center icon.)
5. Click Add.
   (For Mac OS® X 10.2.4 to 10.3.x) Go to 6.
   (For Mac OS® X 10.4.x or greater) Go to 7.
6. (For Mac OS® X 10.2.4 to 10.3.x) Make the following selection.

   (Mac OS® X 10.2.4 - 10.3.x)
7 Choose **Brother MFC-XXXX** (XXXX is your model name), and then click **Add**.

(Mac OS® X 10.4.x)

8 Click the printer, then click **Make Default** to set the printer as the default printer. The printer is now ready.

For Mac OS® X 10.5.x

1 Turn on the machine by plugging in the power cord.
2 From the **Apple** menu, choose **System Preferences**.
3 Click **Print & Fax**.
4 Click + button to add your machine.
5. Choose **Brother MFC-XXXX** (XXXX is your model name), and then click **Add**.

6. From the **Default Printer** pull-down list choose your model to set as the default printer. The printer is now ready.
Changing the print server settings

Changing the configuration using the Remote Setup
(Not available for DCP models)

From a Macintosh®, you can change the machine or print server parameters using the Remote Setup application. (See Using the Remote Setup to change the print server settings (Not available for DCP models) on page 17.)

Using the BRAdmin Light utility to change the print server settings

Brother BRAdmin Light utility is a Java application that is designed for Mac OS® X 10.2.4 or greater environment. BRAdmin Light allows you to change network settings on Brother network ready machine.

Note

• Please use the BRAdmin Light utility that was supplied on the CD-ROM of your Brother product. You can also download the latest version of the BRAdmin Light utility from http://solutions.brother.com.

• Node Name: Node Name appears in current BRAdmin Light. The default Node Name is BRNxxxxxxxxxxxx for a wired network or BRWxxxxxxxxxxxx for a wireless network (where xxxxxxxxxxxx is your machine’s Ethernet address).

1. Start the BRAdmin Light utility, by double-clicking the Macintosh HD icon on your desk top and clicking Library / Printers / Brother / Utilities. And then, double-click the BRAdmin Light.jar file.
2. Choose the print server which you want to change the settings.
3. Choose Configure Print Server from the Control menu.
4. Enter a password if you have set it. You can now change the print server settings.

Other sources of information

2. See Configuring your machine for a network with an Ethernet cable connection on page 9 to learn how to configure the IP address of the machine.
Overview

The LDAP protocol allows you to search for information such as fax numbers and E-mail addresses from your server. You can configure LDAP settings using the BRAdmin Professional utility.

Note

The LDAP protocol is not supported for China.

Changing the LDAP configuration using BRAdmin Professional (For Windows®)

Note

Please use the latest version of the BRAdmin Professional utility that is available as a download from http://solutions.brother.com. This utility is only available for Windows® users.

1 Start the BRAdmin Professional utility (from Windows® 2000/XP or Windows Vista®), by clicking Start / All Programs ¹ / Brother Administrator Utilities / Brother BRAdmin Professional 3 / BRAdmin Professional 3.

2 Choose MFC-6890CDW (print server) which you want to configure.

3 Choose Configure Device from the Control menu.

4 Enter a password. The default password is "access".

¹ Programs for Windows® 2000 users
5. Choose the **Network Configuration** tab and then click **LDAP**.

6. Click items you want to configure.
LDAP operation using the control panel

1. Press Phone Book.
2. Press to search.
3. Enter initial characters for your search by using the buttons on the Touchscreen.

![Note]
- You can enter up to 15 characters.
- For more information on using the dial pad, see Entering Text on page 179.

4. Press OK.
The LDAP search result will be shown on LCD before the local address book search result with . If there is no match on the server or the local address book, the LCD will show Results cannot be found.

5. Press or to scroll until you find the name you are looking for.
To confirm details of the result information, press the name you are looking for, and then press Detail.

6. If the result includes more than one fax number or E-mail address, the machine will prompt you to press or to choose either a fax number or an E-mail address.

7. Load your document and press Send a fax.

![Note]
- The LDAP function of this machine supports LDAPv3.
- You need to use Simple Authentication to communicate with your LDAP server.
- SSL/TLS is not supported.
- For more information, visit us at http://solutions.brother.com/.
Internet fax overview

Internet faxing (I-Fax) allows you to send and receive fax documents using the Internet as the transport mechanism. Documents are transmitted in E-mail messages as attached TIFF-F files. This means that computers are also able to receive and send documents, providing that the computer has as an application that can generate and view TIFF-F files, you can use a TIFF-F viewer application. Any documents sent via the machine will automatically be converted into a TIFF-F format. If you wish to send and receive messages to and from your machine, your mail application on the computer must be able to support the MIME format.

Note

- You can send/receive I-Fax documents in Letter or A4 format and in Black & White only.
- If your document is in a Ledger or A3 format, it will automatically be reduced to Letter or A4 format when it is sent.
- If you want to send a document in a Ledger or A3 format, see *Scan to E-mail Server overview (MFC-6490CW and MFC-6890CDW)* on page 150.
- For MFC-5890CN
  In order to use this function, please download the necessary software from the Brother Solutions Center. (http://solutions.brother.com)

Getting connected

Before sending or receiving an Internet fax you must configure your Brother machine to communicate with your network and mail server. You must ensure the following: a correctly configured IP address for your machine, an E-mail address for your machine, the mail server(s) IP address, mailbox name and password for your Brother machine. If you are unsure of any of these items, please contact your systems Administrator. For details of how to configure this information, see *E-mail/I-FAX (For MFC-6490CW and MFC-6890CDW)* on page 95.
Control panel key functions

**Shift + 1 (For color LCD models)**

Press \[phone\] then \[fax\]. (For Touchscreen models)

Used to change input mode. You can use dial pad keys as Standard alphabet character keys (For color LCD models only).

**Dial Pad**

Used to enter Standard Alphabet characters (26 letters), as well as @, space ! # % & ' () + / : ; < > = ? [ ] ^ - $ , _ and Numbers.

**Shift + 3 (For color LCD models)**

To change between upper case and lower case for entering the E-mail address.

↓ or ↑

Moves the LCD cursor to the left or right when you enter text.

**OK**

Used to store multiple numbers.

(For US) Black Start
(For UK) Mono Start

Begins transmitting the document.

**Stop/Exit**

Deletes entered data and stops the scanning or transmitting process.

**One Touch**

Search/Speed-Dial

These functions work the same way as with conventional machines. However, please note that you cannot use chain dialling for E-mail addresses.

(For US) Shift + Black Start or Color Start
(For UK) Shift + Mono Start or Colour Start

Used to receive E-mail from the POP3 server manually.
Sending an Internet fax

Sending an Internet fax is the same as sending a normal fax. If you have already programmed the addresses of the destination Internet fax machines as One Touch or Speed-Dial locations, you can send the Internet fax by loading the document into the machine, use the Fax Resolution to set the preferred resolution and select a Speed-Dial number and pressing Black Start or Mono Start.

Manually entering text

(For color LCD models)
Press Shift and 1 simultaneously to change into the "alphabet" dialing mode. You can use the Dial Pad to enter the E-mail address.

(For Touchscreen models)
Press . Press to choose numbers, characters or special characters.
For more information, Entering Text on page 179.
As you enter an Internet fax address, the address will appear character by character on the LCD. If you specify more than 22 characters, the LCD will scroll the name to the left character by character. You can enter up to 60 characters.
(For US) Press Black Start to send the document.
(For UK) Press Mono Start to send the document.
After the document is scanned, it is transmitted to the recipient Internet fax machine automatically via your SMTP server. You can cancel the send operation by pressing the Stop/Exit button during scanning. After the transmission is finished, the machine will return to standby mode.
Some E-mail servers do not allow you to send large E-mail documents (the System Administrator will often place a limit on the maximum E-mail size). With this function enabled, the machine will display Out of Memory when trying to send E-mail documents over 1 Mbyte in size. The document will not be sent and an error report will be printed. The document you are sending should be separated into smaller documents that will be accepted by the mail server. (For your information, a 42 page document based on the ITU-T Test Chart #1 test chart is approximately 1 Mbyte in size.)
Receiving E-mail or Internet fax

There are 2 ways you can receive E-mail messages:
- POP3 receiving (manually initiated)
- POP3 receiving at regular intervals

Using POP3 receiving the machine must poll the E-mail server to receive the print jobs. This polling can occur at set intervals (for example, you can configure the machine to poll the E-mail server at 10 minute intervals) or you can manually poll the server by pressing the Shift + Black Start/Mono Start or Color Start/Colour Start button.

If your machine starts to receive E-mail print jobs, the LCD will reflect this activity. For example, you will see Receiving on the LCD followed by “xx E-mail(s)”. If you press the Shift + Black Start/Mono Start or Color Start/Colour Start buttons to manually poll the E-mail server for E-mail print jobs and there are no mail documents waiting to be printed, the machine will display No Mail on the LCD for two seconds.

If your machine is out of paper when receiving data, the received data will be held in the machine's memory. This data will be printed automatically after paper is re-inserted into the machine. (For European, Asian and Oceanic machines, Memory receive must be switched ON.)

If the received mail is not in a plain text format or an attached file is not in the TIFF-F format, the following error message will be printed: “ATTACHED FILE FORMAT NOT SUPPORTED. FILE NAME:XXXXXX.doc”

If the received mail is too large, the following error message will be printed: “E-MAIL FILE TOO LARGE”. If Delete POP Receive Error Mail is ON (default) then error mail is automatically deleted from the E-mail server.

Receiving an Internet fax to your computer

When a computer receives an Internet fax document, the document is attached to a mail message that informs the computer that it has received a document from an Internet fax. This is notified in the subject field of the received mail message.

If the computer to which you wish to send a document is not running Windows® 2000/XP or Windows Vista® operating system, please inform the computer's owner that they must install some software that can view TIFF-F files.

Forwarding received E-mail and fax messages

You can forward received E-mail or standard fax messages to another E-mail address or fax machine. Received messages can be forwarded via E-mail to a computer or Internet fax. They can also be forwarded via standard phone lines to another machine.

The setting can be enabled through the machines front panel. The steps for configuring fax forward can be found in Chapter 6 of the User’s Guide supplied with your machine.

Please see Chapter 6 of the User’s Guide included with the machine to check that this feature is supported.
Relay broadcasting

This function allows the Brother machine to receive a document over the Internet, and then relay it to other fax machines through conventional telephone lines.

If you wish to use your machine as a relay broadcast device, you must specify the domain name that you trust at the machine, in other words, the portion of the name after the “@” sign.

A trusted domain refers to the E-mail address. For example, if the other party’s address is bob@brother.com, then we identify the domain as brother.com. If the E-mail address is jack@brother.co.uk, then we identify the domain as brother.co.uk.

Use care in selecting a trusted domain since any user on a trusted domain will be able to send a relay broadcast. You can register up to 5 domain names.

Relay broadcast can support the relay of a document up to a maximum of 48 fax machines through conventional telephone lines.

Relay broadcast from your machine

In this example, your machine has an E-mail address of FAX@brother.com, you wish to send a document from this machine to another machine in England with an E-mail address of UKFAX@brother.co.uk, this machine will then forward the document to a standard fax machine using a conventional telephone line. If your E-mail address is FAX@brother.com, you must configure a trusted domain name of brother.com on the machine in England that will broadcast the document to the conventional fax machine. If you do not enter the domain name information, then the machine in the middle (the machine that will broadcast the document) will not trust any internet jobs that it receives from the machine in the @brother.com domain.

After the trusted domain is set, you can send the document from your machine [I.E. FAX@brother.com] by entering the E-mail address of the machine [I.E. UKFAX@brother.co.uk] that will forward the document followed by the phone number of the fax that will receive the document. The following is an example of how to enter the E-mail address and phone number.

The word "fax#" must be included with the phone number inside the parenthesis.
Sending to multiple phone numbers:
If you want to have the document relayed to more than one standard fax machine the address can be entered using the following method:

(For color LCD models)
1. Enter the phone number of the first Fax machine UKFAX@brother.co.uk(fax#123).
2. Press OK.
3. Enter the phone number of the second Fax machine UKFAX@brother.co.uk(fax#456).
4. (For US) Press Black Start.
   (For UK) Press Mono Start.

(For Touchscreen models)
1. Press (Fax).
2. Press ◀ or ▶ to display Broadcasting.
4. You can add numbers to the broadcast in the following ways:
   - Press Add Number and enter a number using the buttons on the LCD.
     Press OK.
   - Press Phone Book.
     Press ▲ to search by Alphabetical Order or Numerical Order. Press the locations where you want to send a fax.
     Press OK.
5. After you have entered all the fax numbers by repeating step 4, press OK.
6. (For US) Press Black Start.
   (For UK) Press Mono Start.
Relay broadcast from your computer

You can also send an E-mail from your computer and have it relayed to a conventional fax machine. The method of entering the phone number of the conventional fax machine that will receive the relayed E-mail will vary depending on the mail application you are using. The following are some examples of different mail applications:

Some E-mail applications do not support sending to multiple phone numbers. If your E-mail application cannot support multiple phone numbers you will only be able to relay to one fax machine at a time.

Enter the address of the relay machine and phone number of the fax in the “TO” box using the same method used when sending from an machine.

UKFAX@brother.co.uk(fax#123456789)

**Outlook 97/98/2000/2002/2003:**

For Outlook 97/98/2000/2002 and 2003 the address information must be entered into the address book as follows:

Name: fax#123456789

E-mail address: UKFAX@brother.co.uk
TX Verification Mail

Transmission Verification Mail supports two separate functions. Verification Mail for sending allows you request notification from the receiving station that the I-Fax or E-mail was received and processed. Verification Mail for receiving allows you to transmit a default report back to the sending station after successfully receiving and processing an I-Fax or E-mail.

To use this feature you must set the Notification option within the Setup Mail RX and Setup Mail TX options.

Setup Mail TX

You can set the Notification option in the Setup Mail TX option to either On or Off. When switched to On an additional field of information is sent with the image data. This field is named “MDN”.

MDN (Mail Disposition Notification):
This field requests the status of the I-Fax/E-mail message after delivery through the SMTP (Send Mail Transfer Protocol) transport system. Once the message has arrived at the receiving station this data is used when the machine or user reads or prints the received I-Fax or E-mail. For example, if the message is opened for reading or is printed the receiving station sends back a notification to the original sending machine or user.

The receiving station must support the MDN field in order to be able to send a notification report, otherwise the request will be ignored.

Setup Mail RX

There are three possible settings for this option On, MDN or Off.

Receive Notification “On”
When switched to “On” a fixed message is sent back to the sending station to indicate successful reception and processing of the message. These fixed messages depend on the operation requested by the sending station.

Report messages consist of:
SUCCESS : Received From <Mail Address>

Receive Notification “MDN”
When switched to “MDN” a report as described above is sent back to the sending station if the originating station sent the “MDN” field to request confirmation.

Receive Notification “Off”
Off switches all forms of receive notification Off, no message are sent back to the sending station regardless of the request.

Error mail

If there is a mail delivery error while sending an Internet fax, the mail server will send an error message back to the machine and the error message will be printed. If there is an error while receiving mail, an error message will be printed (Example: “The message being sent to the machine was not in a TIFF-F format.”).
Important information on Internet fax

Internet fax communication on a LAN system is basically the same as communication via E-mail; however, it is different from fax communication using standard phone lines. The following is important information for using Internet fax:

- Factors such as the receiver’s location, structure of the LAN system, and how busy the circuit (such as the internet) is, may cause the system to take a long time to send back an error mail. (normally 20 sec. to 30 sec.)

- In the case of transmission through the Internet, due to its low level of security, we recommend that you use standard phone lines to send confidential documents.

- If the receiver’s mail system is not compatible with the MIME format, you cannot transmit a document to the receiver. Depending on receiver’s server, there may be some cases in which the error mail will not be sent back.

- If the size of a document’s image data is too large, there is a possibility of unsuccessful transmission.

- You cannot change the font or character size of Internet mail that you have received.
Scan to E-mail Server overview (MFC-6490CW and MFC-6890CDW)

When you choose Scan to E-mail (E-mail Server) you can scan a black and white or color document and send it directly to an E-mail address from the machine. You can choose PDF or TIFF for Black and White and PDF or JPEG for color.

**Note**

- Scan to E-mail (E-mail Server) requires SMTP/POP3 mail server support. (See *E-mail/I-FAX (For MFC-6490CW and MFC-6890CDW)* on page 95.)
- MFC-5890CN can be also assigned an E-mail address allowing you to send, receive or forward documents over a Local Area Network or the Internet to PC’s or other Internet Fax machines. In order to use this function, please download the necessary software from the Brother Solutions Center (http://solutions.brother.com).

For MFC-6490CW

1. Load your document.
2. Press the (Scan) key.
3. Press ▲ or ▼ to choose Scan to E-mail.
   Press OK.
4. Press ▲ or ▼ to choose E-mail Server.
   Press OK.
5. Press ▲ or ▼ to choose Quality.
   If you don’t want to change the quality or file type, press ▲ and then enter destination address, go to 6.
6. Press ◀ or ▶ to choose Color 150 dpi, Color 300 dpi, Color 600 dpi, B/W 200x100 dpi or B/W 200 dpi.
   Press OK.
7. Press ▼ to choose File Type.
   Press ◀ or ▶ to choose PDF or JPEG for color or gray scale documents and PDF or TIFF for B/W documents.
   Press OK.

**Note**

If you are using the scanner glass of the machine, choose the document size.

- Press ▼ to choose Glass ScanSize.
- Press ◀ or ▶ to choose Letter, Legal, Ledger, A4 or A3 for US or A4, A3, Letter, Legal or Ledger for UK.
   Press OK.
For MFC-6890CDW

1. Load your document.

2. Press the (Scan) key.

3. Press Scan to E-mail.

4. Press E-mail Server.

5. Press Manual to enter the destination E-mail address.
   Press OK.

Note

You can also use E-mail address you have stored in your machine.

- Press ▲ or ▼ to choose Phone Book.
  Press ►.
- Press ▲ or ▼ to choose Alphabetical Order or Numerical Order.
  Press OK.
- Press ▲ or ▼ to choose the E-mail address you want.
  Press OK.
  Press OK again.

(For US) Black Start or Color Start.
(For UK) Mono Start or Colour Start.

The machine will start the scanning process.

If you are using the scanner glass, the LCD displays Next Page?. Press 1 for Yes or press 2 for No.

6. Press ◄ or ► to choose Quality.
   Choose the quality you want.
   If you don't want to change the quality or file type, go to ⑥.
7 Press ◄ or ► to choose File Type.
    Choose the file type you want.
    If you don't want to change the file type, go to 8.

Note
    If you are using the scanner glass of the machine, choose the document size.
    • Press ◄ or ► to choose Glass ScanSize.
    • Choose the document size you want.

8 (For US) Black Start or Color Start.
    (For UK) Mono Start or Colour Start.
    The machine starts the scanning process.
    If you are using the scanner glass, the LCD displays Next Page?. Press Yes or No.
Overview

This chapter explains the security features supported by your Brother machine and how to configure them. You can also learn how to manage your network machine securely.

Security methods for E-mail notification

The Brother print server supports the following security methods for E-mail notification.

POP before SMTP (PbS)

The user authentication method for sending E-mail from a client. The client is given permission to use the SMTP server by accessing the POP3 server before sending the E-mail.

SMTP-AUTH (SMTP Authentication)

SMTP-AUTH expands SMTP (the Internet E-mail sending protocol) to include an authentication method that ensures the true identity of the sender is known.

APOP (Authenticated Post Office Protocol)

APOP expands POP3 (the Internet receiving protocol) to include an authentication method that encrypts the password when the client receives E-mail.
Using E-mail notification with user authentication

To use the E-mail notification function via secure SMTP server that requires a user authentication, you need to use POP before SMTP or SMTP-AUTH method. These methods prevent an unauthorized user from accessing the mail server. You can use BRAdmin Professional and Web BRAdmin to configure these settings.

*Note*

You need to match the settings of POP3/SMTP authentication with one of the E-mail servers. Contact your network administrator or your internet service provider about the configuration before using.

Managing your network machine securely using BRAdmin Professional (for Windows®)

To use the BRAdmin Professional utility securely, you need to follow the points below.

- We strongly recommend to use the latest version of the BRAdmin Professional utility or Web BRAdmin that are available as a download from [http://solutions.brother.com](http://solutions.brother.com). If you use an older version of BRAdmin ¹ to manage your Brother machines the user authentication will not be secure.
- Disable the TELNET, FTP and TFTP protocols. Accessing the machine using these protocols is not secure. You can configure the protocol settings from BRAdmin Professional.
- If you are managing a mixed group of older print servers ² and the new NC-170h or NC-180w print server with BRAdmin Professional, we recommend using a different password in each group. This will ensure security is maintained on the new NC-170h or NC-180w print server.

1. BRAdmin Professional older than Ver. 2.80, Web BRAdmin older than Ver. 1.40, BRAdmin Light for Macintosh® older than Ver. 1.10
2. NC-2000 series, NC-2100p, NC-3100h, NC-3100s, NC-4100h, NC-5100h, NC-5200h, NC-6100h, NC-6200h, NC-6300h, NC-6400h, NC-8000, NC-100h, NC-110h, NC-120w, NC-130h, NC-140w, NC-8100h, NC-9100h, NC-7100w, NC-7200w, NC-2200w
Overview

This chapter explains how to resolve typical network problems you may encounter when using the machine. If, after reading this chapter, you are unable to resolve your problem, please visit the Brother Solutions Center at: http://solutions.brother.com.

This chapter is divided into the following sections:

- General problems
- Network print software installation problems
- Printing problems
- Scanning and PC-FAX problems
- Protocol-specific troubleshooting
- Wireless network specific troubleshooting

General problems

**CD-ROM is inserted, but does not start automatically**

If your computer does not support Autorun, the menu will not start automatically after inserting the CD-ROM. In this case, execute Start.exe in the root directory of the CD-ROM.

**How to reset the Brother print server to factory default**

You can reset the print server back to its default factory settings (resetting all information such as the password and IP address information). (See Restoring the network settings to factory default on page 124.)

**My computer cannot find the machine/print server**

My machine/print server does not appear in the window of Remote Setup, BRAdmin Light or BRAdmin Professional
For Windows®

The Firewall on your computer may be blocking the necessary network connection to the machine. In this case, you will need to disable the Firewall on your computer and re-install the drivers.

**Windows® XP SP2 users:**

1. Click the **Start** button, **Control Panel, Network and Internet Connections**.
2. Double-click **Windows Firewall**.
3. Click the **General** tab. Make sure that **Off (not recommended)** is selected.
4. Click **OK**.

**Note**

After the Brother software package is installed, re-enable your Firewall.

**Windows Vista® users:**

1. Click the **Start** button, **Control Panel, Network and Internet, Windows Firewall** and click **Change settings**.
2. When the **User Account Control** screen appears, do the following.
   - Users who have administrator rights: Click **Continue**.
   - For users who do not have administrator rights: Enter the administrator password and click **OK**.
3. Click the **General** tab. Make sure that **Off (not recommended)** is selected.
4. Click **OK**.

**Note**

After the Brother software package is installed, re-enable your Firewall.

For Macintosh®

Re-select your machine in the Device Selector application located in **Macintosh HD/Library/Printers/Brother/Utilities/DeviceSelector** or from the model pull-down list of ControlCenter2.
Network print software installation problems

The Brother print server is not found during setup of the network print software installation or from the printer driver of the Brother machine in Windows®.
The Brother print server is not found using the Simple Network Configuration capabilities of Mac OS® X.

For a network with an Ethernet cable connection
Make sure you have completed the IP address setting of the Brother print server according to Chapter 2 of this User’s Guide before installing the network print software or printer driver.

For a wireless network
Make sure you have completed the IP address setting and wireless network settings of the Brother print server according to Chapter 3 of this User’s Guide before installing the network print software or printer driver.

Check the following:

1. Make sure that the machine is powered on, is on-line and ready to print.
2. Check to see if the LCD momentarily displays LAN Active after being connected to the network.
   - The LCD displays LAN Active: The print server is connected to the network.
   - The LCD does not display LAN Active: The print server is not connected to the network.
3. Print the Network Configuration List and check if the settings such as IP address settings are correct for your network. The problem may be the result of mismatched or duplicate IP address. Verify that the IP address is correctly loaded into the print server. And make sure that no other nodes on the network have this IP address. For information on how to print the Network Configuration List, see Printing the Network Configuration List on page 125.
4. Verify that the print server is on your network as follows:
   - **For Windows®**
     1. Click Start, All Programs, Accessories then choose Command Prompt.
     2. Try pinging the print server from the host operating system command prompt with the command: ping ipaddress
        Where ipaddress is the print server IP address (note that in some instances it can take up to two minutes for the print server to load its IP address after setting the IP address).
   - **For Mac OS® X 10.2.4 or greater**
     1. From the Go menu, choose Applications.
     2. Open the Utilities folder.
     3. Double-click the Terminal icon.
     4. Try pinging the print server from the Terminal window:
        ping ipaddress
        Where ipaddress is the print server IP address (note that in some instances it can take up to two minutes for the print server to load its IP address after setting the IP address).
If you have tried 1 to 4 above and it does not work, then reset the print server back to the default factory settings and try from the initial setup again. For information how to reset to the default factory settings, see Restoring the network settings to factory default on page 124.

Check the following:
If the installation failed, the Firewall on your computer may be blocking the necessary network connection to the machine. In this case, you will need to disable the Firewall on your computer and re-install the drivers. For more information, see General problems on page 155. If you are using personal Firewall software, see the User’s Guide for your software or contact the software manufacturer.
Printing problems

Print job is not printed

Make sure the status and configuration of the print server. Check the following:

1. Make sure that the machine is powered on, is on-line and ready to print.

2. Print the Network Configuration List of the machine and check if the settings such as IP address settings are correct for your network. The problem may be the result of mismatched or duplicate IP address. Verify that the IP address is correctly loaded into the print server. And make sure that no other nodes on the network have this IP address.

3. Verify that the print server is on your network as follows:

   - **For Windows®**
     1. Try pinging the print server from the host operating system command prompt with the command:
        
        \[ \text{ping ipaddress} \]
        
        Where \text{ipaddress} is the print server IP address (note that in some instances it can take up to two minutes for the print server to load its IP address after setting the IP address).
        
        2. If a successful response is received, then proceed to Windows® Peer-to-Peer print (LPR) troubleshooting. Otherwise, proceed to 4.

   - **For Mac OS® X 10.2.4 or greater**
     1. From the Go menu, choose Applications.
     2. Open the Utilities folder.
     3. Double-click the Terminal icon.
     4. Try pinging the print server from the Terminal window:
        
        \[ \text{ping ipaddress} \]
        
        Where \text{ipaddress} is the print server IP address (note that in some instances it can take up to two minutes for the print server to load its IP address after setting the IP address).

4. If you have tried 1 to 3 above and it does not work, then reset the print server back to the default factory settings and try from the initial setup again. For information how to reset to the default factory settings, see \textit{Restoring the network settings to factory default} on page 124.

Error during printing

If you try to print while other users are printing large amounts of data (e.g. many pages or color pages with high resolution), the machine is unable to accept your print job until the ongoing printing is finished. If the waiting time of your print job exceeds a certain limit, a time out situation occurs, which causes the error message. In such situations, execute the print job again after the other jobs are completed.
Scanning and PC Fax problems

The network scanning feature does not work in Windows®
The network PC Fax feature does not work in Windows®

Firewall settings on your PC may reject the necessary network connection for network printing, network scanning and PC Fax. If you are using Windows® Firewall and you installed MFL-Pro Suite from the CD-ROM, the necessary Firewall settings have already been made. If you did not install from the CD-ROM follow the instructions below to configure Windows® Firewall. If you are using any other personal firewall software, see the User’s Guide for your software or contact the software manufacturer.

UDP Port number information for Firewall configuration

<table>
<thead>
<tr>
<th>UDP Port</th>
<th>Network Scanning</th>
<th>Network PC-Fax</th>
<th>Network Scanning and Network PC-Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Port number</td>
<td>54925</td>
<td>54926</td>
<td>137</td>
</tr>
<tr>
<td>Internal Port number</td>
<td>54925</td>
<td>54926</td>
<td>137</td>
</tr>
</tbody>
</table>

1 Add Port number 137 if you still have trouble with your network connection after you added port 54925 and 54926. Port number 137 also supports printing, PhotoCapture Center™ and Remote Setup over the network.

Windows® XP SP2 users:

1. Click the **Start** button, **Control Panel**, **Network and Internet Connections** and then **Windows Firewall**. Make sure that **Windows Firewall** on the **General** tab is set to **On**.

2. Click the **Advanced** tab and **Settings...** button.

3. Click the **Add** button.

4. Add port **54925** for network scanning by entering the information below:
   1. In **Description of service**: Enter any description, for example, “Brother Scanner”.
   2. In **Name or IP address** (for example 192.168.0.12) or the computer hosting this service on your network: Enter “Localhost”.
   3. In **External Port Number for this service**: Enter “54925”.
   4. In **Internal Port Number for this service**: Enter “54925”.
   5. Make sure **UDP** is selected.
   6. Click **OK**.

5. Click the **Add** button.

6. Add port **54926** for Network PC-Fax by entering the information below:
   1. In **Description of service**: Enter any description, for example, “Brother PC Fax”.
   2. In **Name or IP address** (for example 192.168.0.12) or the computer hosting this service on your network: Enter “Localhost”.
   3. In **External Port Number for this service**: Enter “54926”.
   4. In **Internal Port Number for this service**: Enter “54926”.
   5. Make sure **UDP** is selected.
   6. Click **OK**.
If you still have trouble with your network connection, click the Add button.

Add port 137 for both Network scanning and Network PC-Fax receiving by entering the information below:
1. In Description of service: Enter any description, for example, “Brother PC Fax receiving”.
2. In Name or IP address (for example 192.168.0.12) or the computer hosting this service on your network: Enter “Localhost”.
3. In External Port Number for this service: Enter “137”.
4. In Internal Port Number for this service: Enter “137”.
5. Make sure UDP is selected.
6. Click OK.

Make sure that the new setting is added and is checked, and then click OK.

Windows Vista® users:

1. Click the button, Control Panel, Network and Internet, Windows Firewall and click Change settings.

2. When the User Account Control screen appears, do the following.
   - Users who have administrator rights: Click Continue.
   - For users who do not have administrator rights: Enter the administrator password and click OK.

3. Make sure that Windows Firewall on the General tab is set to On.
4. Click the Exceptions tab.
5. Click the Add port... button.
6. To add port 54925 for network scanning, enter the information below:
   1. In Name: Enter any description, for example, “Brother Scanner”.
   2. In Port number: Enter “54925”.
   3. Make sure UDP is selected.
   4. Click OK.
7. Click the Add port... button.
8. To add port 54926 for network PC Fax, enter the information below:
   1. In Name: Enter any description, for example, “Brother PC Fax”.
   2. In Port number: Enter “54926”.
   3. Make sure UDP is selected.
   4. Click OK.
9. Make sure that the new setting is added and is checked, and then click OK.
10. If you still have trouble with your network connection such as network scanning or printing, check File and Printer Sharing box in the Exceptions tab and then click OK.
Wireless network troubleshooting

Wireless setup problems

The Brother print server is not found during setup by the Wireless Device Setup Wizard.

1. Make sure that the machine is powered on, is on-line and ready to print.
2. Move your computer closer to the Brother machine and try again.
3. Reset the print server back to its default factory settings and try again. For the information how to reset to the factory default settings, see Restoring the network settings to factory default on page 124.

Why do I have to change my machine’s network setting to “Wired LAN” during setup although I am trying to setup Wireless LAN?

If you are using Windows® 2000, Mac OS® X 10.2.4 or greater or your computer is connected to the wireless network using a network cable, it is recommended you temporarily connect the machine to your access point, hub or router using a network cable. You will also need to change your machine’s network setting to wired LAN temporarily. Your machine’s network setting will be changed to wireless LAN during the course of the setup.

For Windows®:
Wireless configuration for Windows® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN) on page 38.
Using the Setup Wizard from the control panel on page 27.

For Macintosh®:
Wireless Configuration for Macintosh® using the Brother installer application (Not available for MFC-5490CN and MFC-5890CN) on page 58.
Using the Setup Wizard from the control panel on page 27.

Wireless connection problem

The wireless network connection is sometimes disabled.

The wireless network connection status is affected by the environment where the Brother machine and other wireless devices are located. The following conditions may cause connection problems:

- A concrete or metal framed wall is located between the Brother machine and the access point.
- Electric appliances such as televisions, computer appliances, microwave ovens, intercoms, mobile/cellular phone, battery chargers or AC power adaptors are installed close to your network.
- A broadcast station or high-tension wire is located close to your network.
- A nearby fluorescent light is being switched on or off.
LDAP troubleshooting

If you are having trouble connecting to a LDAP server, please contact your Network Administrator and check the LDAP Security Options.

For more information, please visit http://solutions.brother.com.
Using services

A service is a resource that can be accessed by computers that wish to print to the Brother print server. The Brother print server provides the following predefined services (do a SHOW SERVICE command in the Brother print server remote console to see a list of available services): Enter \texttt{HELP} at the command prompt for a list of supported commands.

<table>
<thead>
<tr>
<th>Service (Example)</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>BINARY_P1</td>
<td>TCP/IP binary, NetBIOS service</td>
</tr>
<tr>
<td>TEXT_P1</td>
<td>TCP/IP text service (adds carriage return after each line feed)</td>
</tr>
<tr>
<td>BRNxxxxxxxxxxxxx</td>
<td>TCP/IP binary</td>
</tr>
</tbody>
</table>

Where xxxxxxxxxxxxx is your machine’s Ethernet address.

Other ways to set the IP address (for advanced users and administrators)

For information on how to configure your machine for a network using the BRAdmin Light utility, see \textit{Setting up the IP address and subnet mask} on page 12.

Using DHCP to configure the IP address

The Dynamic Host Configuration Protocol (DHCP) is one of several automated mechanisms for IP address allocation. If you have a DHCP server in your network, the print server will automatically obtain its IP address from DHCP server and register its name with any RFC 1001 and 1002-compliant dynamic name services.

\textbf{Note}

If you do not want your print server configured via DHCP, BOOTP or RARP, you must set the \texttt{BOOT METHOD} to \texttt{static} so that the print server has a static IP address. This will prevent the print server from trying to obtain an IP address from any of these systems. To change the \texttt{BOOT METHOD}, use the BRAdmin Light utility.
Using BOOTP to configure the IP address

BOOTP is an alternative to rarp that has the advantage of allowing configuration of the subnet mask and gateway. In order to use BOOTP to configure the IP address make sure that BOOTP is installed and running on your host computer (it should appear in the /etc/services file on your host as a real service; type man bootpd or refer to your system documentation for information). BOOTP is usually started up via the /etc/inetd.conf file, so you may need to enable it by removing the “#” in front of the bootp entry in that file. For example, a typical bootp entry in the /etc/inetd.conf file would be:

```
#bootp dgram udp wait /usr/etc/bootpd bootpd -i
```

Depending on the system, this entry might be called “bootps” instead of “bootp”.

**Note**

In order to enable BOOTP, simply use an editor to delete the “#” (if there is no “#”, then BOOTP is already enabled). Then edit the BOOTP configuration file (usually /etc/bootptab) and enter the name, network type (1 for Ethernet), Ethernet address and the IP address, subnet mask and gateway of the print server. Unfortunately, the exact format for doing this is not standardized, so you will need to refer to your system documentation to determine how to enter this information (many UNIX® systems also have template examples in the bootptab file that you can use for reference). Some examples of typical /etc/bootptab entries include: (“BRN” below is “BRW” for a wireless network.)

```
BRN008077310107 1 00:80:77:31:01:07 192.189.207.3
```

and:

```
BRN008077310107:ht=ethernet:ha=008077310107:\ip=192.189.207.3:
```

Certain BOOTP host software implementations will not respond to BOOTP requests if you have not included a download filename in the configuration file; if this is the case, simply create a null file on the host and specify the name of this file and its path in the configuration file.

As with rarp, the print server will load its IP address from the BOOTP server when the machine is powered on.
Using RARP to configure the IP address

The Brother print server’s IP address can be configured using the Reverse ARP (RARP) facility on your host computer. This is done by editing the /etc/ethers file (if this file does not exist, you can create it) with an entry similar to the following:

00:80:77:31:01:07 BRN008077310107 (or BRW008077310107 for a wireless network)

Where the first entry is the Ethernet address of the print server and the second entry is the name of the print server (the name must be the same as the one you put in the /etc/hosts file).

If the rarp daemon is not already running, start it (depending on the system the command can be rarpd, rarpd -a, in.rarpd -a or something else; type man rarpd or refer to your system documentation for additional information). To verify that the rarp daemon is running on a Berkeley UNIX® based system, type the following command:

ps -ax | grep -v grep | grep rarpd

For AT&T UNIX®-based systems, type:

ps -ef | grep -v grep | grep rarpd

The Brother print server will get the IP address from the rarp daemon when the machine is powered on.

Using APIPA to configure the IP address

The Brother print server supports the Automatic Private IP Addressing (APIPA) protocol. With APIPA, DHCP clients automatically configure an IP address and subnet mask when a DHCP server is not available. The device chooses it’s own IP address in the range 169.254.1.0 through to 169.254.254.255. The subnet mask is automatically set to 255.255.0.0 and the gateway address is set to 0.0.0.0.

By default, the APIPA protocol is enabled. If you want to disable the APIPA protocol, you can disable it using control panel of the machine. For more information, see APIPA on page 87.

If the APIPA protocol is disabled, the default IP address of a Brother print server is 192.0.0.192. However, you can easily change this IP address number to match with the IP address details of your network.
Using ARP to configure the IP address

If you are unable to use the BRAdmin application and your network does not use a DHCP server, you can also use the ARP command. The ARP command is available on Windows® systems that have TCP/IP installed as well as UNIX® systems. To use arp enter the following command at the command prompt:

```
arp -s ipaddress ethernetaddress
```

Where `ethernetaddress` is the Ethernet address (MAC address) of the print server and `ipaddress` is the IP address of the print server. For example:

- **Windows® systems**
  
  Windows® systems require the dash “-” character between each digit of the Ethernet address.
  
  `arp -s 192.168.1.2 00-80-77-31-01-07`

- **UNIX®/Linux® systems**
  
  Typically, UNIX® and Linux® systems require the colon “:” character between each digit of the Ethernet address.
  
  `arp -s 192.168.1.2 00:80:77:31:01:07`

**Note**

You must be on the same Ethernet segment (that is, there cannot be a router between the print server and operating system) to use the `arp -s` command.

If there is a router, you may use BOOTP or other methods described in this chapter to enter the IP address. If your Administrator has configured the system to deliver IP addresses using BOOTP, DHCP or RARP your Brother print server can receive an IP address from any one of these IP address allocation systems. In which case, you will not need to use the ARP command. The ARP command only works once. For security reasons, once you have successfully configured the IP address of a Brother print server using the ARP command, you cannot use the ARP command again to change the address. The print server will ignore any attempts to do this. If you wish to change the IP address again, use TELNET (using the SET IP ADDRESS command) or factory reset the print server (which will then allow you to use the ARP command again).

To configure the print server and to verify the connection, enter the following command `ping ipaddress` where `ipaddress` is the IP address of the print server. For example, `ping 192.189.207.2`. 
Using the TELNET console to configure the IP address

You can also use the TELNET command to change the IP address. TELNET is an effective method to change the machine’s IP address. But a valid IP address must already be programmed into the print server.

Type TELNET ipaddress at the command prompt, where ipaddress is the IP address of the print server. When you are connected, press the Return or Enter key to get the “#” prompt. Enter a password if you have set it. For MFC-5490CN, MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW, the default password is “access”.

You will be prompted for a user name. Enter anything in response to this prompt.

You will then get the Local> prompt. Type SET IP ADDRESS ipaddress, where ipaddress is the desired IP address you wish to assign to the print server (check with your network administrator for the IP address to use). For example:

Local> SET IP ADDRESS 192.168.1.3

You will now need to set the subnet mask by typing SET IP SUBNET subnet mask, where subnet mask is the desired subnet mask you wish to assign to the print server (check with your network administrator for the subnet mask to use). For example:

Local> SET IP SUBNET 255.255.255.0

If you do not have any subnets, use one of the following default subnet masks:

255.0.0.0 for class A networks
255.255.0.0 for class B networks
255.255.255.0 for class C networks

The leftmost group of digits in your IP address can identify the type of network you have. The value of this group ranges from 1 through 127 for Class A networks (e.g., 13.27.7.1), 128 through 191 for Class B networks (e.g., 128.10.1.30), and 192 through 255 for Class C networks (e.g., 192.168.1.4).

If you have a gateway (router), enter its address with the command SET IP ROUTER routeraddress, where routeraddress is the desired IP address of the gateway you wish to assign to the print server. For example:

Local> SET IP ROUTER 192.168.1.4

Type SET IP METHOD STATIC to set the method of IP access configuration to static.

To verify that you have entered the IP information correctly, type SHOW IP.

Type EXIT or Ctrl-D (i.e., hold down the control key and type “D”) to end the remote console session.
Installation when using a Network Print Queue or Share (printer driver only)

Note

- You must configure the IP address on your machine before you proceed with this section. If you have not configured the IP address, see Configuring your machine for a network with an Ethernet cable connection on page 9 first.
- Verify the host computer and print server are either on the same subnet, or that the router is properly configured to pass data between the two devices.
- If you are using Windows® Firewall or a firewall function of anti-spyware or antivirus applications, temporarily disable them. Once you are sure that you can print, configure the software settings following the instructions again.

1. Start the CD-ROM installation menu program according to the Quick Setup Guide.
2. Choose the model name and your language (if necessary), and then click Initial Installation or Advanced.
3. Click Printer Driver (Only).
4. Click Next in response to the Welcome message. Follow the on-screen instructions.
5. Choose Standard Installation and click Next.
6. Choose Network Shared Printer, and then click Next.
7. Choose your printer’s queue, and then click OK.

Note

Contact your administrator if you are not sure about the location and name of the printer on the network.

8. Click Finish.
Installation when using Web Services (For Windows Vista® users)

**Note**

- You must configure the IP address on your machine before you proceed with this section. If you have not configured the IP address, see *Configuring your machine for a network with an Ethernet cable connection* on page 9 first.
- Verify the host computer and print server are either on the same subnet, or that the router is properly configured to pass data between the two devices.

1. Click , then choose **Network**.
2. The machine’s Web Services Name will be shown with the printer icon. Right click the machine you want to install.

**Note**

The Web Services Name for the Brother machine is your model name and the Ethernet address of your machine (e.g. Brother MFC-XXXX [XXXXXXXXXXXX]).

3. From the pull down menu, click **Install**.
4. When the **User Account Control** screen appears, do the following.
   - Users who have administrator rights: Click **Continue**.
   - For users who do not have administrator rights: Enter the administrator password and click **OK**.
5. Choose **Locate and install driver software**.
6. Insert Brother CD-ROM.
7. Choose **Don’t search online** and then **Browse my computer for driver software** on your computer.
8. Choose your CD-ROM drive then choose the **driver**, and then **win2kxp vista** folder.
9. Choose your language and then click **OK** to begin installation.
Appendix B

Print server specifications

Ethernet wired network

<table>
<thead>
<tr>
<th>Network Board Model name</th>
<th>NC-170h</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAN</td>
<td>You can connect your machine to a network for Network Printing, Network Scanning, and PC Fax Send ¹, PC Fax Receive ¹ (Windows® only) and Remote Setup ¹. Also included is Brother BRAdmin Light ² Network Management software.</td>
</tr>
<tr>
<td>Support for</td>
<td>Windows® 2000 Professional/XP/XP Professional x64 Edition/Windows Vista®</td>
</tr>
<tr>
<td></td>
<td>Mac OS® X 10.2.4 or greater</td>
</tr>
<tr>
<td>Protocols</td>
<td>TCP/IP for IPv4: ARP, RARP, BOOTP, DHCP, APIPA (Auto IP), NetBIOS/WINS, LPR/LPD, Custom Raw Port/Port9100, DNS Resolver, mDNS, FTP Server, TELNET, SNMPv1, TFTP, Scanner Port, Web Services, SMTP Client, POP before SMTP, SMTP-AUTH, POP3, APOP, FTP Client, LDAP ⁴</td>
</tr>
<tr>
<td></td>
<td>TCP/IP for IPv6: (Turned off as default) NDP, RA, LPR/LPD, Custom Raw Port/Port9100, mDNS, FTP Server, TELNET, SNMPv1, TFTP, Scanner Port, Web Services, SMTP Client, POP before SMTP, SMTP-AUTH, POP3, APOP, FTP Client, LDAP ⁴</td>
</tr>
<tr>
<td></td>
<td>Other: LLTD responder</td>
</tr>
<tr>
<td>Network Type</td>
<td>Ethernet 10/100 BASE-TX Auto Negotiation</td>
</tr>
<tr>
<td>Management utilities</td>
<td>BRAdmin Light for Windows® 2000 Professional, Windows® XP, Windows® XP Professional x64 Edition, Windows Vista® and Mac OS® X 10.2.4 or greater</td>
</tr>
<tr>
<td></td>
<td>Client computers with a web browser supporting Java™.</td>
</tr>
</tbody>
</table>

¹ Not available for DCP models.
² If you require more advanced printer management, use the latest Brother BRAdmin Professional utility version that is available as a download from http://solutions.brother.com.
³ Web BRAdmin and BRAdmin Professional are available as a download from http://solutions.brother.com.
⁴ MFC-6890CDW only. The LDAP protocol is not supported for China.
## Ethernet wireless network

<table>
<thead>
<tr>
<th>Network Board</th>
<th>NC-180w</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td></td>
</tr>
</tbody>
</table>

**LAN**

You can connect your machine to a network for Network Printing, Network Scanning, and PC Fax Send 1, PC Fax Receive 1 (Windows® only) and Remote Setup 1. Also included is Brother BRAdmin Light 2 Network Management software.

**Support for**

Windows® 2000 Professional/XP/XP Professional x64 Edition/Windows Vista®

Mac OS® X 10.2.4 or greater

**Protocols**

TCP/IP for IPv4: ARP, RARP, BOOTP, DHCP, APIPA (Auto IP), NetBIOS/WINS, LPR/LPD, Custom Raw Port/Port9100, DNS Resolver, mDNS, FTP Server, TELNET, SNMPv1, TFTP, Scanner Port, Web Services, SMTP Client, POP before SMTP, SMTP-AUTH, POP3, APOP, FTP Client, LDAP 4

TCP/IP for IPv6: (Turned off as default) NDP, RA, LPR/LPD, Custom Raw Port/Port9100, mDNS, FTP Server, TELNET, SNMPv1, TFTP, Scanner Port, Web Services, SMTP Client, POP before SMTP, SMTP-AUTH, POP3, APOP, FTP Client, LDAP 4

Other: LLTD responder

**Network Type**

IEEE 802.11 b/g (Wireless LAN)

**Management utilities** 3

BRAdmin Light for Windows® 2000 Professional, Windows® XP, Windows® XP Professional x64 Edition, Windows Vista® and Mac OS® X 10.2.4 or greater


Client computers with a web browser supporting Java™.

**Frequency**

2412-2472 MHz

**RF channels**

USA/Canada 1-11

Japan 802.11b: 1-14, 802.11g: 1-13

Others 1-13

**Communication mode**

Infrastructure, Ad-hoc (802.11b only)

**Data rates**

802.11b 11/5.5/2/1 Mbps

802.11g 54/48/36/24/18/12/11/9/6/5.5/2/1 Mbps
Link distance 70m (233 ft.) at lowest data rate (The distance rate will vary upon environment and other equipment location.)

Network Security SSID/ESSID, 128 (104) / 64 (40) bit WEP, WPA/WPA2-PSK (TKIP/AES)

Setup Support Utility (One-Push method)
SecureEasySetup™, Wi-Fi Protected Setup™, AOSS™

1 Not available for DCP models.
2 If you require more advanced printer management, use the latest Brother BRAdmin Professional utility version that is available as a download from http://solutions.brother.com.
4 MFC-6890CDW only. The LDAP protocol is not supported for China.
## Function table and default factory settings

For MFC-5490CN

<table>
<thead>
<tr>
<th>Level1</th>
<th>Level2</th>
<th>Level3</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td>2.IP Address</td>
<td>[000-255].[000-255].[000-255].[000-255]. [000].[000].[000].[000] ¹</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>3.Subnet Mask</td>
<td>[000-255].[000-255].[000-255].[000-255]. [000].[000].[000].[000] ¹</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>4.Gateway</td>
<td>[000-255].[000-255].[000-255].[000-255]. [000].[000].[000].[000]</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>5.Node Name</td>
<td>BRNxxxxxxxxxxxxx= (your machine’s Ethernet address) (up to 15 characters)</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>6.WINS Config</td>
<td>Auto/Static</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>7.WINS Server</td>
<td>Primary/Secondary [000-255].[000-255].[000-255].[000-255]. [000].[000].[000].[000]</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>8.DNS Server</td>
<td>Primary/Secondary [000-255].[000-255].[000-255].[000-255]. [000].[000].[000].[000]</td>
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</tr>
<tr>
<td>6.</td>
<td>9.APIPA</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>0.IPv6</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>1.Ethernet</td>
<td>Auto/100B-FD/100B-HD/10B-FD/10B-HD</td>
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</tr>
<tr>
<td>2.</td>
<td>Factory Reset</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ If you are using a network environment, leave all factory settings as they are.
## For other machines

<table>
<thead>
<tr>
<th>Level1</th>
<th>Level2</th>
<th>Level3</th>
<th>Options1</th>
<th>Options2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network</td>
<td>Wired LAN</td>
<td>TCP/IP</td>
<td>BOOT Method</td>
<td>Auto/Static/RARP/BOOTP/DHCP</td>
</tr>
<tr>
<td>IP Address</td>
<td>[000-255].[000-255]. [000-255]. [000-255].</td>
<td>[000].[000].[000].[000]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subnet Mask</td>
<td>[000-255].[000-255]. [000-255]. [000-255].</td>
<td>[000].[000].[000].[000]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gateway</td>
<td>[000-255].[000-255]. [000-255]. [000-255].</td>
<td>[000].[000].[000].[000]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node Name</td>
<td>BRNXXXXXXXXXXXXX= (your Ethernet address)</td>
<td>(up to 15 characters) BRNXXXXXXXXXXXX*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WINS Config</td>
<td>Auto/Static</td>
<td>Primary/Secondary</td>
<td>[000-255].[000-255]. [000-255]. [000-255].</td>
<td>[000].[000].[000].[000]</td>
</tr>
<tr>
<td>DNS Server</td>
<td>Primary/Secondary</td>
<td>[000-255].[000-255]. [000-255]. [000-255].</td>
<td>[000].[000].[000].[000]</td>
<td></td>
</tr>
<tr>
<td>APIPA</td>
<td>On/Off</td>
<td>IPv6</td>
<td>On/Off</td>
<td>(MFC-5890CN, MFC-6490CW, DCP-6690CW and MFC-6890CDW only)</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Auto/100B-FD/100B-HD/10B-FD/10B-HD</td>
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### Network (Continued)

<table>
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<th>Level3</th>
<th>Options1</th>
<th>Options2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network TCP/IP</td>
<td>WLAN</td>
<td>IP Address</td>
<td>[000-255].[000-255].[000-255].[000-255]</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Subnet Mask</td>
<td>[000-255].[000-255].[000-255].[000-255]</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gateway</td>
<td>[000-255].[000-255].[000-255].[000-255]</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Node Name</td>
<td>BRWXXXXXXXXXXX=(your Ethernet address)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>WINS Config</td>
<td>Auto/Static</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>WINS Server</td>
<td>Primary/Secondary</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>DNS Server</td>
<td>Primary/Secondary</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>APIPA</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>IPv6</td>
<td>On/Off</td>
<td></td>
</tr>
<tr>
<td>Setup Wizard</td>
<td></td>
<td></td>
<td>(Choose SSID from list or manually add SSID)</td>
<td></td>
</tr>
<tr>
<td>SES/WPS/AOSS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPS w/PIN Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WLAN Status</td>
<td></td>
<td>Status</td>
<td>Active(11b)/Active(11g)/Connection Failed</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Signal</td>
<td>Strong/Medium/Weak/None</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SSID</td>
<td>(Shows SSID with up to 32 digits)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Comm. Mode</td>
<td>Ad-hoc/Infrastructure</td>
<td></td>
</tr>
<tr>
<td>Level1</td>
<td>Level2</td>
<td>Level3</td>
<td>Options1</td>
<td>Options2</td>
</tr>
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<td>--------</td>
<td>--------</td>
<td>--------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>Network (Continued)</td>
<td>E-mail/IPAX (MFC-6490CW and MFC-6890CDW only)</td>
<td>Mail Address</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Setup Server</td>
<td>SMTP Server</td>
<td>Name (Up to 30 characters)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>IP Address</td>
<td>[000-255].[000-255].[000-255].[000-255].</td>
<td></td>
</tr>
<tr>
<td>SMTP Port</td>
<td>[0001-65535]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auth. for SMTP</td>
<td>None/SMTP-AUTH/POP bef.SMTP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POP3 Server</td>
<td>Name (Up to 30 characters)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IP Address</td>
<td>[000-255].[000-255].[000-255].[000-255].</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POP3 Port</td>
<td>[00001-65535]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailbox Name</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailbox Pwd</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APOP</td>
<td>On/Off</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setup Mail RX</td>
<td>Auto Polling</td>
<td>On/Off</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Poll Frequency</td>
<td>10 Min(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(MFC-6490CW only)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Header</td>
<td>All/Subject+From+To/None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Del Error Mail</td>
<td>On/Off</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notification</td>
<td>On/MDN/Off</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setup Mail TX</td>
<td>Sender Subject</td>
<td>—</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Size Limit</td>
<td>On/Off</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Notification</td>
<td>On/Off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setup Relay</td>
<td>Rly Broadcast</td>
<td>On/Off</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relay Domain</td>
<td>Relayxx</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relay Report</td>
<td>On/Off</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Appendix B

<table>
<thead>
<tr>
<th>Level1</th>
<th>Level2</th>
<th>Options1</th>
<th>Options2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network (Continued)</td>
<td>Scan to FTP (MFC-5890CN, MFC-6490CW and MFC-6890CDW only)</td>
<td>Passive Mode</td>
<td>On/Off</td>
</tr>
<tr>
<td></td>
<td>Port Number</td>
<td>21</td>
<td>[00001-65535]</td>
</tr>
<tr>
<td></td>
<td>File Name1</td>
<td>—</td>
<td>(Up to 15 characters)</td>
</tr>
<tr>
<td></td>
<td>File Name2</td>
<td>—</td>
<td>(Up to 15 characters)</td>
</tr>
<tr>
<td></td>
<td>Setup Profile</td>
<td>Not Registered</td>
<td>(Up to 30 characters)</td>
</tr>
<tr>
<td></td>
<td>Not Registered</td>
<td>(Up to 30 characters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Registered</td>
<td>(Up to 30 characters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Registered</td>
<td>(Up to 30 characters)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Registered</td>
<td>(Up to 30 characters)</td>
<td></td>
</tr>
<tr>
<td>Time Zone</td>
<td>UTC</td>
<td>xxxx:xx</td>
<td></td>
</tr>
<tr>
<td>Network I/F</td>
<td>Wired LAN</td>
<td>Mallan</td>
<td></td>
</tr>
<tr>
<td>LDAP</td>
<td>On/Off</td>
<td>(MFC-6890CDW only)</td>
<td></td>
</tr>
<tr>
<td>Factory Reset</td>
<td>Yes/No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The factory settings are shown in bold.

1 On connection to the network, the machine will automatically set the IP address and Subnet Mask to value appropriate for your network.
2 The LDAP protocol is not supported for China.
Entering Text

For Touchscreen models

When you are setting certain menu selections, you may need to enter text into the machine. Press \[\text{ABC}0\] to choose numbers, characters or special characters. Up to four letters are assigned to each button on the Touchscreen.

By pressing the correct button repeatedly, you can access the character you want.

Inserting spaces

To enter a space, press \[\text{ABC}0\] to choose special characters, then press the space button \[\text{Space}1\] or \[\text{Space}2\].

Note

The characters available may differ depending on your country.

Making corrections

If you entered an incorrect letter and want to change it, use the arrow buttons to move the cursor under the incorrect character. Then press \[\text{Back}0\]. Re-enter the correct character. You can also insert letters by moving the cursor and entering a character.

Repeating letters

If you need to enter a letter that is on the same button as the letter before, press \[\text{Right}0\] to move the cursor to the right before you press the button again.
For MFC models

When you are setting certain menu selections, you may need to enter text into the machine. Most number keys have three or four letters printed on keys. The keys for 0, # and * do not have printed letters because they are used for special characters.

By pressing the correct number key repeatedly, you can access the character you want.

For setting wireless network options

<table>
<thead>
<tr>
<th>Press Key</th>
<th>one time</th>
<th>two times</th>
<th>three times</th>
<th>four times</th>
<th>five times</th>
<th>six times</th>
<th>seven times</th>
<th>eight times</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>a</td>
<td>b</td>
<td>c</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>2</td>
<td>a</td>
</tr>
<tr>
<td>3</td>
<td>d</td>
<td>e</td>
<td>f</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>3</td>
<td>d</td>
</tr>
<tr>
<td>4</td>
<td>g</td>
<td>h</td>
<td>i</td>
<td>G</td>
<td>H</td>
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<td>R</td>
<td>S</td>
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<td>v</td>
<td>T</td>
<td>U</td>
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<td>w</td>
<td>x</td>
<td>y</td>
<td>Z</td>
<td>W</td>
<td>X</td>
<td>Y</td>
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</table>

For setting other menu selections

<table>
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<th>one time</th>
<th>two times</th>
<th>three times</th>
<th>four times</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>D</td>
<td>E</td>
<td>F</td>
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</tr>
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<td>4</td>
<td>G</td>
<td>H</td>
<td>I</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>J</td>
<td>K</td>
<td>L</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>M</td>
<td>N</td>
<td>O</td>
<td>6</td>
</tr>
<tr>
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<td>R</td>
<td>S</td>
</tr>
<tr>
<td>8</td>
<td>T</td>
<td>U</td>
<td>V</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>W</td>
<td>X</td>
<td>Y</td>
<td>Z</td>
</tr>
</tbody>
</table>

For setting an E-mail address, Scan to FTP menu options and E-mail/IFAX menu

Press Shift + 3 to change between upper case and lower case.

Putting spaces

To enter a space in a fax number, press ► once between numbers. To enter a space in a name, press ► twice between characters.

Making corrections

If you entered a letter incorrectly and want to change it, press ◀ to move the cursor under the incorrect character, press Clear/Back. Re-enter the correct character. You can also back up and insert letters.
Repeating letters
If you need to enter a letter that is on the same key as the letter before, press ▶ to move the cursor to the right before you press the key again.

Special characters and symbols
Press *, # or 0, and then press ◀ or ▶ to move the cursor under the special character or symbol you want. Then press OK to choose it. The symbols and characters below will appear depending on your menu selection.

Press * for (space) ! " $ % & ’ ( ) * + , - . /
Press # for : ; < = > ? @ [ ] ^ _
Press 0 for 0 \ { | } ˜

For DCP models
Press ▲ or ▼ repeatedly to enter the text and press OK.
Press ◀ or ▶ repeatedly to move the cursor.

Press ▲ or ▼ for characters below
abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789(space)!"#$%&’( )+,-./:;<=>?@[\]^_`

Making corrections
If you entered an incorrect letter and want to change it, press ◀ or ▶ to position the cursor under the incorrect letter. Use the ▲ and ▼ keys to change to the correct letter, then press ▶ repeatedly to move the cursor back to the end of the text.
Press Stop/Exit. All letters above and to the right of the cursor will be deleted. Re-enter the correct letter.
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