

Google Cloud Print™

- 1 Open the Chrome browser.
- 2 Visit www.google.com.
- 3 Sign in to the Google website with your Gmail™ address.
- 4 Enter your printer's IP address in the address field and press the Enter key or click **Go**.
- 5 Click **Login** in the upper right corner of the SyncThru™ Web Service website.
- 6 If it's your first time logging into **SyncThru™ Web Service** you need to log-in as an administrator. Type in the below default **ID** and **Password**. We recommend you to change the default password for security reasons.
 - **ID: admin**
 - **Password: sec00000**



If the network environment is using a proxy server, you need to configure the proxy's IP and port number from **Settings > Network Settings > Google Cloud Print > Proxy Setting**. Contact your network service provider or network administrator for more information.

- 7 When the **SyncThru™ Web Service** window opens, click **Settings > Network Settings > Google Cloud Print**.
- 8 Enter your printer's name and description.

- 9 Click **Register**.
The confirmation pop-up window appears.



If you set the browser to block pop-ups, the confirmation window will not appear. Allow the site to show pop-ups.

- 10 Click **Finish printer registration**.
- 11 Click **Manage your printers**.
Now your printer is registered with Google Cloud Print™ service.
Google Cloud Print™-ready devices will appear in the list.

Google Cloud Print™

Printing with Google Cloud Print™

The printing procedure varies depending on the application or the device you are using. You can see the application list that supports Google Cloud Print™ service.



Make sure the printer is turned on and connected to a wired or wireless network that has access to the Internet.

Printing from an application on mobile device

The following steps are an example of using the Google Docs™ app from Android mobile phone.

- 1 Install the Cloud Print application on your mobile device.



If you do not have the application, download it from the application store such as Android Market or App Store.

- 2 Access the Google Docs™ application from your mobile device.
- 3 Tap the option  button of the document that you want to print.
- 4 Tap the send  button.

- 5 Tap the Cloud Print  button.
- 6 Set the printing options if you want.
- 7 Tap **Click here to Print**.

Printing from the Chrome browser

The following steps are an example of using the Chrome browser.

- 1 Run Chrome.
- 2 Open the document or email that you want to print.
- 3 Click the wrench icon  in the browser's top right corner.
- 4 Click **Print**. A new tab for printing appears.
- 5 Select **Print with Google Cloud Print**.
- 6 Click the **Print** button.



3. Useful Setting Menus

This chapter explains how to browse the current status of your machine, and the method of setting for advanced machine setup.

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Before you begin reading a chapter

This chapter explains all the features available for this series' models to help users easily understand the features.

You can check the features available for each model in the Basic Guide (see "Menu overview" on page 30).

The following are tips for using this chapter

- The control panel provides access to various menus to set up the machine or use the machine's functions. These menus can be accessed by pressing  (**Menu**).
- Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine.
- For models that do not have the  (**Menu**) on the control panel, this feature is not applicable (see "Control panel overview" on page 21).
- Some menu names may differ from your machine depending on its options or the models.

Print menu

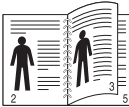


Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

- Press  (**Menu**) > **Print Setup** on the control panel.

Item	Description
Orientation	Selects the direction in which information is printed on a page. Portrait 
	Landscape 

Item	Description
Duplex	You can set the machine to print copies on both sides of paper. Off: Prints in normal mode. Short Edge  Long Edge 
Copies	You can enter the number of copies using the number keypad.
Resolution	Specifies the number of dots printed per inch (dpi). The higher the setting, the sharper printed characters and graphics.
Clear Text	Prints text darker than on a normal document.
Auto CR	Allows you to append the required carriage return to each line feed, which is useful for Unix or DOS users.
SkipBlankPages	The printer detects the printing data from computer whether a page is empty or not. You can set to skip the blank pages.
Emulation	Sets the emulation type and option.

Copy menu

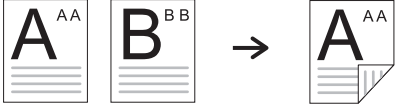
Copy feature

 Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

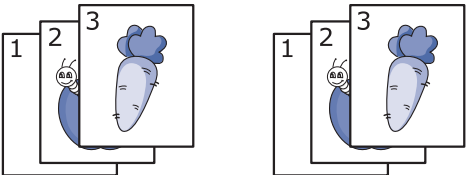
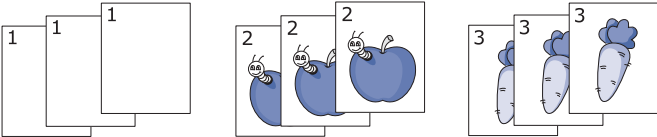
To change the menu options:

- Press  (copy) >  (**Menu**) > **Copy Feature** on the control panel.

Item	Description
Original Size	Sets the image size.
Reduce/Enlarge	Reduces or enlarges the size of a copied image (see "Reduced or enlarged copy" on page 59).  If the machine is set to Eco mode, reduce and enlarge features are not available.

Item	Description
Duplex	You can set the machine to print copies on both sides of paper. 1 Sided: Scans one side of an original and prints it on one side of the paper. 1->2Sided  1->2Sided Rotated 
Darkness	Adjusts the brightness level to make a copy that is easier to read, when the original contains faint markings and dark images (see "Darkness" on page 58)
Original Type	Improves the copy quality by selecting the document type for the current copy job (see "Original" on page 58)

Copy menu

Item	Description
Collation	Set the machine to sort the copy job. For example, if you make 2 copies of a 3 page original, one complete 3 page document will print followed by a second complete document. On: Prints output in sets to match the sequence of originals.  Off: Prints output sorted into stacks of individual pages. 
Layout	Adjusts the layout format such as ID copy, 2/4-up, and booklet.

Item	Description
Adjust Bkgd.	Prints an image without its background. This copy feature removes the background color and can be helpful when copying an original containing color in the background, such as a newspaper or a catalog. Off: Does not use this feature. Auto: Optimizes the background. Enhance Lev.1~2: The higher the number is, the more vivid the background is. Erase Lev.1~4: The higher the number is, the lighter the background is.

Copy menu

Copy Setup



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

Press (copy) > (**Menu**) > **Copy Setup** on the control panel.

Item	Description
Change Default	Resets the value or setting to the printer's out-of-box state.

Fax menu

Fax Feature



- Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).
- Some features and optional goods may not be available depending on model or country (see "Features by model" on page 7).

To change the menu options:

- Press (fax) > **(Menu)** > **Fax Feature** on the control panel.

Item	Description
Darkness	Adjusts the brightness level to scan an original that is easier to read, when the original contains faint markings and dark images (see "Darkness" on page 66).
Resolution	The default document settings produce good results when using typical text-based originals. However, if you send originals that are of poor quality, or contain photographs, you can adjust the resolution to produce a higher quality fax (see "Resolution" on page 65).
Original Size	Sets the image size.

Item	Description
Multi Send	Sends a fax to multiple destinations (see "Sending a fax to multiple destinations" on page 64). You cannot send a color fax using this feature.
Delay Send	Sets your machine to send a fax at a later time when you will not be present (see "Delaying a fax transmission" on page 248). You cannot send a color fax using this feature.
Priority Send	Scans the original into memory and immediately transmits it when the current operation is finished. Priority transmission will interrupt a sending to multiple destinations between stations (example, when the transmission to station A ends, before transmission to station B begins) or between redial attempts (see "Sending a priority fax" on page 250).
Send Forward/ Rcv. Forward	Forwards the received or sent fax to other destination by a fax or PC. If you are out of office but have to receive the fax, this feature may be useful. - See "Forwarding a sent fax to another destination" on page 250. - See "Forwarding a received fax" on page 251.

Fax menu

Item	Description
Secure Receive	Stores the received fax in memory without printing out. To print received documents, you need to enter the password. You can prevent your received faxes from being accessed by unauthorized people (see "Receiving in secure receiving mode" on page 254).
Add Page	Adds additional documents to a reserved delay fax job (see "Adding documents to a reserved fax" on page 249).
Cancel Job	Cancels the delayed fax job which is saved in memory (see "Canceling a reserved fax job" on page 249).

Sending setup



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

- Press  (fax) >  (**Menu**) > **Fax Setup** > **Sending** on the control panel.

Item	Description
Redial Times	Sets the number of redial attempts. If you enter 0, the machine will not redial.
Redial Term	Sets the time interval before automatic redialling.
Prefix Dial	Sets a prefix of up to five digits. This number dials before any automatic dial number is started. It is useful for accessing a PABX exchange.
ECM Mode	Sends faxes using error correction mode (ECM) to makes sure the faxes are sent smoothly without any error. It may take more time.
Modem Speed	Select the maximum modem speed you want if the phone line fails to sustain a higher modem speed.
Fax Confirm.	Sets the machine to print a report whether a fax transmission was successfully completed or not. If you select On-Error , the machine prints a report only when a transmission is not successful.
Image TCR	Prints a transmission report with a minimized image of the first page of the fax sent.
Dial Mode	Sets the dialing mode to either tone or pulse. This setting may not be available depending on your country.

Fax menu

Receiving setup



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

- Press  (fax) >  (**Menu**) > **Fax Setup** > **Receiving** on the control panel.

Item	Description
Receive Mode	Selects the default fax receiving mode.
Ring to Answer	Specifies the number of times the machine rings before answering an incoming call.
Stamp Rcv Name	Automatically prints the page number, and the date and time of reception at the bottom of each page of a received fax.
Rcv Start Code	Initiates fax reception from an extension phone plugged into the EXT socket on the back of the machine. If you pick up the extension phone and hear fax tones, enter the code. It is preset to *9* at the factory.

Item	Description
Auto Reduction	Automatically reduces an incoming fax page to fit the size of the paper loaded in the machine.
Discard Size	Discards a specific length from the end of the received fax.
Junk Fax Setup	Blocks any unwanted faxes that you stored in the memory as junk fax numbers. This setting may not be available depending on your country.
DRPD Mode	Enables a user to use a single telephone line to answer several different telephone numbers. You can set the machine to recognize different ring patterns for each number. This setting may not be available depending on your country (see "Receiving faxes using DRPD mode" on page 253).
Duplex Print	Prints the received fax data on both sides of the paper. You can save the paper usage.
Change Default	Resets the value or setting to the printer's out-of-box state.
Manual TX/RX	Setting this option to ON provides the ability to send or receive a fax while the line is busy. You can select to send or receive a fax by either picking up the extension phone receiver and pressing the Start button or by pressing the  (On Hook Dial) button and pressing the Start button.

System setup

Machine setup



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

- Press  (**Menu**) > **System Setup** > **Machine Setup** on the control panel.

Item	Description
Machine ID	Sets the machine ID which will be printed at the top of each fax page that you send.
Fax Number	Sets the fax number which will be printed at the top of each fax page that you send.
Date & Time	Sets the date and time.
Clock Mode	Selects the format for displaying time between 12 hr. and 24 hr.
Language	Sets the language of the text that appears on the control panel display.
Default Mode	Sets the machine's default mode among fax mode and copy mode.

Item	Description
PowerSave	Sets how long the machine waits before going to power save mode. When the machine does not receive data for an extended period of time, power consumption is automatically lowered.
Wakeup Event	You can set the condition to wake up from power-save mode. • On: The machine wake up from the power save mode on the following cases: - Pressing any button - Opening or closing the paper tray - Inserting paper in the document feeder • Off: The machine wake up from the power save mode only when the  (Power/Wake Up) button is pressed.
System Timeout	Sets the time that the machine remembers previously used copy settings. After the timeout, the machine restores the default copy settings.
Job Timeout	Sets the length of time the printer waits before printing the last page of a print job that does not end with a command to print the page.
Altitude Adj.	Optimize print quality according to the machine's altitude.

System setup

Item	Description
Auto Continue	Determine whether or not the machine continues printing when it detects the paper does not match the paper settings. • 0 Sec: This option allows you to continue printing when the paper size you have set is mismatched with the paper in the tray. • 30 Sec: If a paper mismatch occurs, an error message will display. The machine waits for about 30 second, then automatically clear the message and continue printing. • Off: If a paper mismatch occurs, the machine waits until you insert the correct paper.
Paper Substit.	Automatically substitutes the printer driver's paper size to prevent the paper mismatch between Letter and A4. For example, if you have A4 paper in the tray but you set the paper size to Letter in the printer driver, the machine prints on A4 paper and vice versa.
Toner Save	Activating this mode extends the life of your toner cartridge and reduces your cost per page beyond what one would experience in the normal mode, but it reduces print quality.

Item	Description
Eco Settings	Allows you to save print resources and enables eco-friendly printing. • Default Mode: Select whether to turn the Eco mode on or off.  On force (On-Forced): Sets the Eco mode on with password. If a user wants to turn the Eco mode on/off, the user needs to enter the password. • Select Temp.: Selects the eco template set from the SyncThru™ Web Service.

System setup

Paper setup



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

- Press  (**Menu**) > **System Setup** > **Paper Setup** on the control panel.

Item	Description
Paper Size	Sets the paper size as A4, Letter, or other paper sizes, according to your requirements.
Paper Type	Chooses the type of the paper for each tray.
Paper Source	Selects from which tray the paper is used.
Margin	Sets the margins for the document.

Sound / Volume



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

- Press  (**Menu**) > **System Setup** > **Sound/Volume** on the control panel.

Item	Description
Key Sound	Turns the key sound on or off. With this option set to on, a tone sounds each time a key is pressed.
Alarm Sound	Turns the alarm sound on or off. With this option set to on, an alarm tone sounds when an error occurs or fax communication ends.

System setup

Item	Description
Speaker	Turns on or off the sounds from the telephone line through the speaker, such as a dial tone or a fax tone. With this option set to Comm. which means the speaker is on until the remote machine answers.  You can adjust the volume level using  (On Hook Dial). You can adjust the speaker volume only when the telephone line is connected. a Press  (fax) on the control panel. b Press  (On Hook Dial). A dial tone sounds from the speaker. c Press the arrows until you hear the volume you want. d Press  (On Hook Dial) to save the change and return to ready mode.
Ringer	Adjusts the ringer volume. For the ringer volume, you can select off, low, middle, and high level.

Report



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

- Press  (**Menu**) > **System Setup** > **Report** on the control panel.

Item	Description
Configuration	Prints a report on the machine's overall configuration.
Demo Page	Prints the demo page to check whether your machine is printing properly or not.
Network Conf.	Prints information on your machine's network connection and configuration.
Supplies Info.	Prints supplies' information page.
Usage Counter	Prints a usage page. The usage page contains the total number of pages printed.
Fax Received	Prints information on the faxes you have recently received.

System setup

Item	Description
Fax Sent	Prints information on the faxes you have recently sent.
Scheduled Jobs	Prints the document list currently stored for delayed faxes along with the starting time and type of each operation.
Fax Confirm.	Sets the machine to print a report whether a fax transmission was successfully completed or not.
JunkFax	Prints the fax numbers specified as junk fax numbers.
PCL Font List	Prints the PCL font list.
Address Book	Prints all of the email addresses currently stored in the machine's memory.

Maintenance



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

To change the menu options:

- Press  (**Menu**) > **System Setup** > **Maintenance** on the control panel.

Item	Description
CLR Empty Msg.	When toner cartridge is empty, this option appears. You can clear the empty message.
Supplies Life	Shows the supply life indicators (see "Monitoring the supplies life" on page 79.)
Image Mgr.	Allows you to adjust the image setting such as density. • Custom Color: adjusts contrast. - Default: optimizes density automatically. - Print Density: allows you to manually adjust the contrast. It is recommended to use the Default setting for best quality.
TonerLow Alert	Customizes the level to alert toner low or toner empty (see "Setting the toner low alert" on page 80).
ImgU.Low Alert	Allows you to set the alarm for when the imaging unit is low.
Serial Number	Shows the machine's serial number. When you call for service or register as a user on the Samsung website, you can find this.

System setup

Network setup



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 30).

- Press  (**Menu**)> **Network** on the control panel,

Option	Description
TCP/IP (IPv4)	Selects the appropriate protocol and configure parameters to use the network environment.  There are lots of parameters to be set. If you are not sure, leave as is, or consult the network administrator.
TCP/IP (IPv6)	Selects this option to use the network environment through IPv6 (see "IPv6 configuration" on page 157).
Ethernet Speed	Configure the network transmission speed.
Wireless	Selects this option to use the wireless network.

Option	Description
Protocol Mgr.	You can activate or deactivate the following protocols. • Net. Activate: You can set whether to use Ethernet on or off. • Http Activate: You can sets whether to use SyncThru™ Web Service or not. • WINS: You can configure the WINS server. WINS(Windows Internet Name Service) is used in the Windows operating system. • SNMP V1/V2: You have to enable this option to use SNMP V1/V2 protocol. Administrator's can use SNMP to monitor and manage machines on the network. • UPnP(SSDP): You have to enable this option to use UPnP(SSDP) protocol.  Turn the power off and on after you change above options.

System setup

Option	Description
Protocol Mgr. (continued.)	• MDNS: You have to enable this option to use MDNS (Multicast Domain Name System) protocol. • SetIP: You have to enable this option to use SetIP protocol. • SLP: You can configure SLP (Service Location Protocol) settings. This protocol allows host applications to find services in a local area network without prior configuration.  Turn the power off and on after you change this option.
Network Conf.	This list shows information on your machine's network connection and configuration.
Clear Setting	Reverts the network settings to the default values. (Reboot required.)



4. Special Features

This chapter explains special copying, scanning, faxing, and printing features.

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- The procedures in this chapter are mainly based on Windows 7.
- It may be necessary to press **OK** to navigate to lower-level menus for some models.

Altitude adjustment

Print quality is affected by atmospheric pressure, which is determined by the height of the machine above sea level. The following information will guide you on how to set your machine for the best print quality.

Before you set the altitude value, determine the altitude where you are.

- Normal: 0-1,000 m(3,280 ft)
- High1: 1,000 m(3,280 ft)-2,000 m(6,561 ft)
- High2: 2,000 m(6,561 ft)-3,000 m(9,842 ft)
- High3: 3,000 m(9,842 ft)-4,000 m(13,123 ft)
- High4: 4,000 m(13,123 ft)-5,000 m(16,404 ft)

You can set the altitude value from **Device Settings** in Samsung Easy Printer Manager program or **Machine** section in Printer Settings Utility program.

- For Windows and Mac users, you set from **Samsung Easy Printer Manager**
>  **(Switch to advanced mode)** > **Device Settings**, see "Device Settings" on page 267.



- If your machine is connected to the network, you can set the altitude via SyncThru™ Web Service (see "Using SyncThru™ Web Service" on page 261).
- You can also set the altitude in **System Setup** option on the machine's display (see "Menu overview" on page 30).

Entering various characters

As you perform various tasks, you may need to enter names and numbers. For example, when you set up your machine, you enter your name or your company's name, and the fax number. When you store fax numbers or email addresses in memory, you may also enter the corresponding names.

Entering alphanumeric characters

Press the button until the correct letter appears on the display. For example, to enter the letter O, press 6, labeled with MNO. Each time you press 6, the display shows a different letter, M, N, O, m, n, o and finally 6. To find the letter that you want to enter, see "Keypad letters and numbers" on page 221.

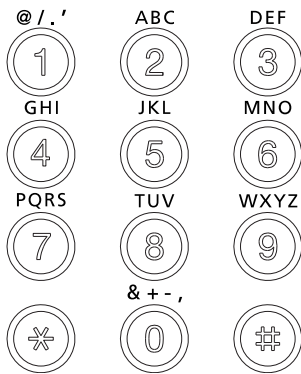


- You can enter a space by pressing 1 twice.
- To delete the last digit or character, press the left/right or up/down arrow button.

Keypad letters and numbers



- Special character sets may differ from your machine depending on its options or the models.
- Some of the follow key values may not appear depending on the job you are doing.



Key	Assigned numbers, letters, or characters
1	@ / . \' 1
2	A B C a b c 2
3	D E F d e f 3
4	G H I g h i 4
5	J K L j k l 5

Entering various characters

Key	Assigned numbers, letters, or characters
6	M N O m n o 6
7	P Q R S p q r s 7
8	T U V t u v 8
9	W X Y Z w x y z 9
0	& + - , 0
*	* (These symbols are available when you type for network authentication.)
#	# (These symbols are available when you type for network authentication.)

Setting up the fax address book

You can set up speed number with the fax numbers you use frequently via SyncThru™ Web Service and then easily and quickly enter fax numbers by entering the location numbers assigned to them in address book.

Registering a speed dial number

- 1 Select  (fax) >  (**Address Book**) > **New & Edit** > **Speed Dial** on the control panel.
- 2 Enter a speed dial number and press **OK**.

 If an entry is already stored in the number you choose, the display shows the message to allow you to change it. To start over with another speed dial number, press  (**Back**).

- 3 Enter the name you want and press **OK**.
- 4 Enter the fax number you want and press **OK**.
- 5 Press the  (**Stop/Clear**) button to return to ready mode.

Using speed dial numbers

When you are prompted to enter a destination number while sending a fax, enter the speed dial number at which you stored the number you want.



- For a one-digit (0-9) speed dial number, press and hold the corresponding digit button on the number keypad for more than 2 seconds.
- For a two- or three-digit speed dial number, press the first digit button(s) and then hold down the last digit button for more than 2 seconds.
- You can print the address book list by selecting  (fax) >  (**Address Book**) > **Print**.

Editing speed dial numbers

- 1 Select  (fax) >  (**Address Book**) > **New & Edit** > **Speed Dial** on the control panel.
- 2 Enter the speed dial number you want to edit and press **OK**.
- 3 Change the name and press **OK**.
- 4 Change the fax number and press **OK**.

Setting up the fax address book

- 5 Press  (**Stop/Clear**) to return to ready mode.

Registering a group dial number

- 1 Select  (fax) >  (**Address Book**) > **New & Edit** > **Group Dial** on the control panel.
- 2 Enter a group dial number and press **OK**.



If an entry is already stored in the number you choose, the display shows the message to allow you to change it. To start over with another speed dial number, press  (**Back**).

- 3 Search by entering the first few letters of the speed dial's name to put in the group.
- 4 Select the name and number you want and press **OK**.
- 5 Select **Yes** when **Another Number?** appears.
- 6 Repeat step 3 to include other speed dial numbers into the group.
- 7 When you have finished, select **No** when **Another Number?** appears and press **OK**.
- 8 Press  (**Stop/Clear**) to return to ready mode.

Editing group dial numbers

- 1 Select  (fax) >  (**Address Book**) > **New & Edit** > **Group Dial** on the control panel.
- 2 Enter the group dial number you want to edit and press **OK**.
- 3 Enter a new speed dial number to add and press **OK**, then **Add?** appears. Enter a speed dial number stored in the group and press **OK**, **Delete?** appears.
- 4 Press **OK** to add or delete the number.
- 5 Repeat step 3 to add or delete more numbers.
- 6 Select **No** at the **Another Number?** and press **OK**.
- 7 Press  (**Stop/Clear**) to return to ready mode.

Setting up the fax address book

Searching address book for an entry

There are two ways to search for a number in memory. You can either scan from A to Z sequentially, or you can search by entering the first letters of the name associated with the number.

- 1 Select ct  (fax) >  (**Address Book**) > **Search & Dial** > **Speed Dial** or **Group Dial** on the control panel.
- 2 Enter **All** or **ID** and press **OK**.
- 3 Press the name and number or the keypad button labeled with the letter you want to search.

For example, if you want to find the name "MOBILE," press the **6** button, which is labeled with "MNO."
- 4 Press  (**Stop/Clear**) to return to ready mode.

Printing address book

You can check your  (**Address Book**) settings by printing a list.

- 1 Select ct  (fax) >  (**Address Book**) > **Print** on the control panel.
- 2 The machine begins printing.