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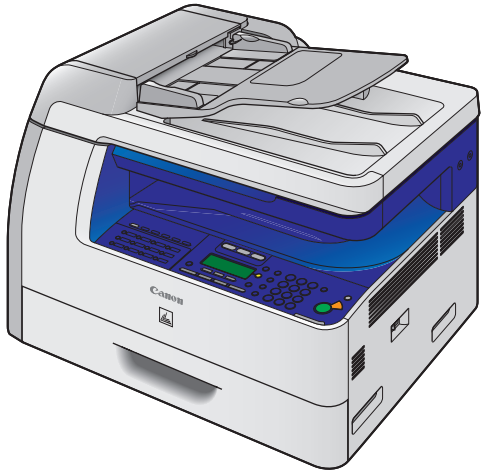
ENG

Canon

Advanced Guide

imageCLASS
MF6500
Series



Please read this guide before operating this equipment.
After you finish reading this guide, store it in a safe place for future reference.

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● Basic Features ● Maintenance ● Machine Settings ● Specifications	**Basic Guide**
● Advanced Features ● Network and Remote User Interface ● System Monitor ● Reports and Lists	**Advanced Guide (This Document)** CD-ROM
● Scanning Features	**Scanner Driver Guide** CD-ROM

CD-ROM **Indicates the manual is supplied in PDF format in the accompanying CD-ROM.**

- To view the manuals in PDF format, Adobe Reader/Acrobat Reader/Acrobat is required. If Adobe Reader/Acrobat Reader/Acrobat is not installed on your system, please download it from the Adobe Systems Incorporated website (http://www.adobe.com).
- Considerable effort has been made to make sure that the manuals for the machine are free of inaccuracies and omissions. However, as we are constantly improving our products, if you need an exact specification, please contact Canon.
- The machine illustration on the cover may differ slightly from your machine.

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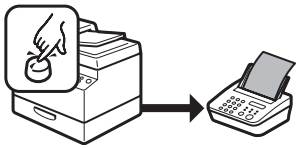
Specify a recipient with a single key



One-Touch Speed Dialing
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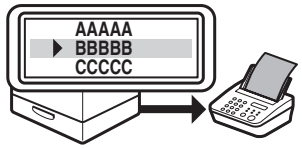
Look up a particular recipient



Address Book Dialing
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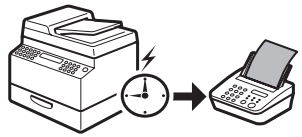
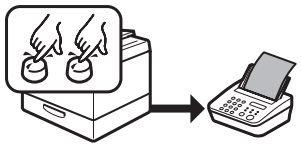
Send a fax at a specified time



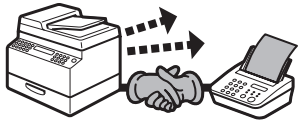
Delayed Sending
→ p. 1-15

Specify a recipient with a two-digit code



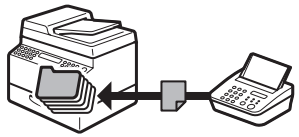
Coded Speed Dialing
→ Basic Guide

Redial when the line is busy



Automatic Redialing
→ p. 1-4

Receive faxes in memory without printing out



Memory Reception
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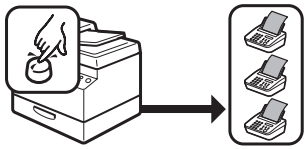
Specify multiple recipients with a single key



Group Dialing
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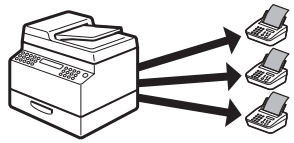
Send a fax to multiple recipients



Broadcasting
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Select a scan mode depending on the type of image

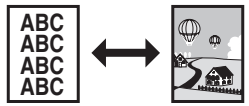

Image Quality
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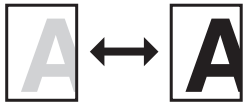
Adjust the density level of scanned images



Density
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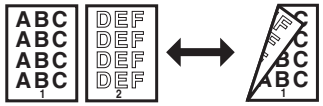
Make two-sided copies



Two-Sided Copy
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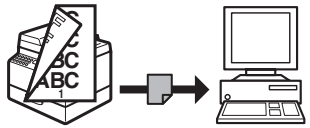
Specify detailed scanning options to suit various images



Scanning
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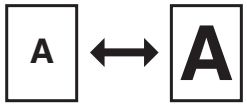
Enlarge or reduce copied images



Zoom Ratio
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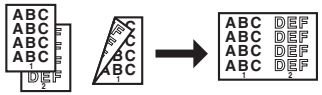
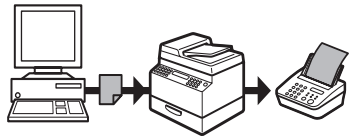
Copy two documents on one sheet



2 on 1 Combination
→ p. 2-5

Send a fax from a PC



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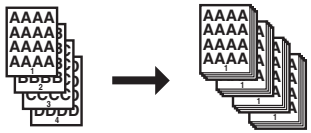
Sort copies by page order



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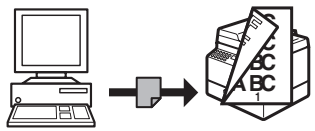
Print a document from a PC



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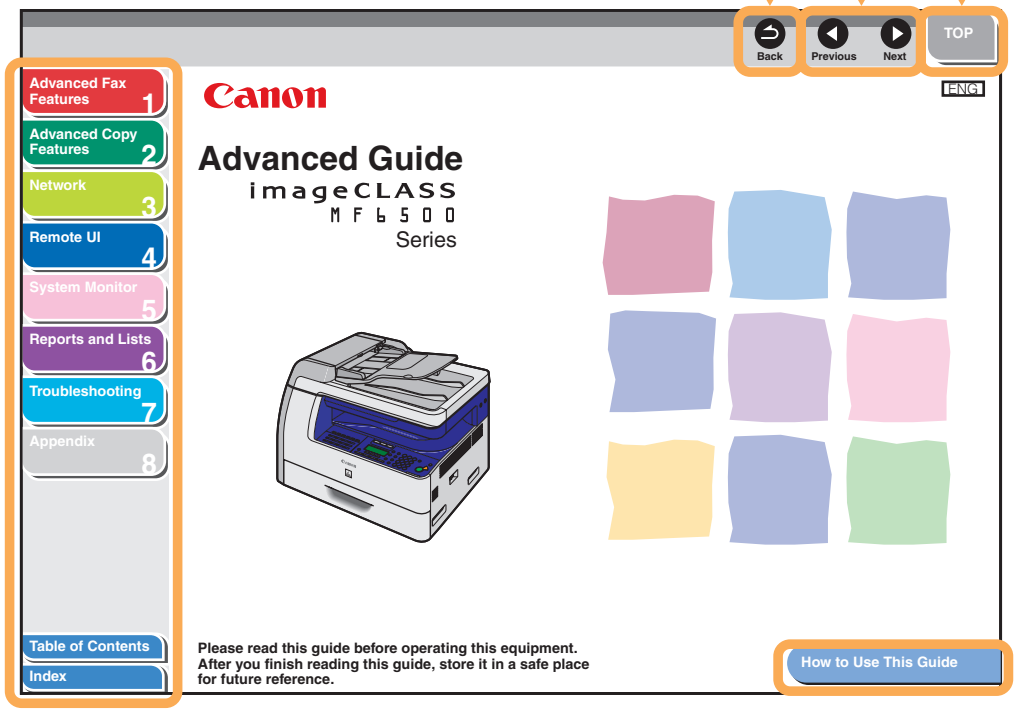
Returns to the top page.



Displays the “How to Use This Guide” page.

Quick links to the list of things you can do, topics for each chapter, table of contents, and the index.

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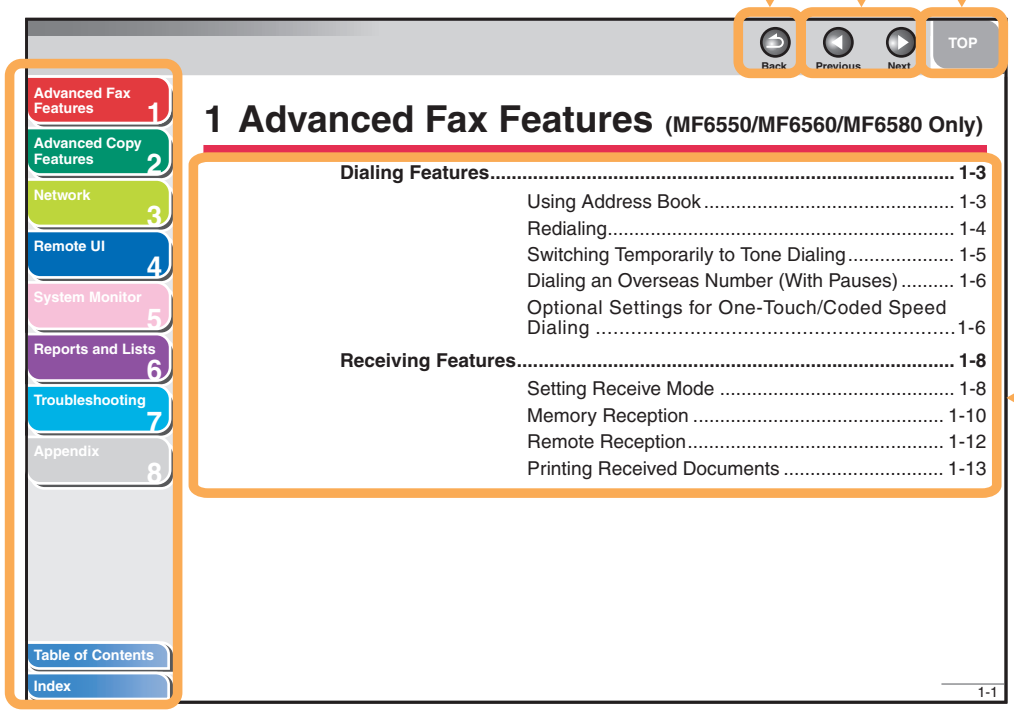

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The following symbols are used throughout the manuals for the machine and indicate the warnings, cautions and notes you should keep in mind when using the machine.

WARNING

Indicates a warning that may lead to death or serious injury if not observed.

CAUTION

Explains how to avoid actions that could injure you or damage your machine.

NOTE

Explains operating restrictions and how to avoid minor difficulties.

In addition, this guide uses distinctive notations to identify keys and information in the LCD:

– The keys you press appear in square brackets: [Stop].

– Information in the LCD appears in angle brackets: <TRANSMIT>.

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Dialing Features

The machine provides the following dialing features: address book dialing, redialing, and temporary tone dialing.

Using Address Book

Address book dialing enables you to search for a particular recipient registered in the machine. This is useful when you forget which one-touch speed dialing key or coded speed dialing code the recipient you want is registered under.

1. Press [FAX].

2. Press [Address Book].

If no recipient is registered for speed dialing, <NOT REGISTERED> is displayed.

3. Use a numeric key to enter the first letter of the recipient's name.

– For example, if you want to search for a name that starts with the letter "H", press [4] (GHI) once or twice.
– Entries starting with the letter you entered are displayed if any entries are registered.
– Press [✱] to switch between input modes:
[:A]: Letter mode
[:1]: Number mode

Ex.

```
ADDRESS BOOK        :A
HIJK
```

4. Use [◄–] or [+►] to search for the recipient's name.

– Pressing [+►] displays the names of other recipients in alphabetical order.
– Pressing [◄–] displays them in reverse order.

5. When the recipient's name is displayed, press [OK].

6. Press [Start] to dial the number.

When you set the documents on the platen glass, use [◄–] or [+►] to select the document size, then press [Start] for each document. When scanning is complete, press [OK] to start dialing.

NOTE

When <TIME OUT> is set to <ON> in <TX SETTINGS> in <FAX SETTINGS>, the machine starts dialing automatically after a preset time.

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Redialing

Redialing can be done manually or automatically. For automatic redialing, you can set how many times the machine redials and the time between redials.

Redialing Manually

1. **Press [FAX].**
2. **Press [Redial] to dial the last number you entered using the numeric keys.**

   To cancel manual redialing, press [Reset].
3. **Press [Start] to dial the number.**

   When you set the documents on the platen glass, use [◄–] or [+►] to select the document size, then press [Start] for each document. When scanning is complete, press [OK] to start dialing.

   NOTE

   When <TIME OUT> is set to <ON> in <TX SETTINGS> in <FAX SETTINGS>, the machine starts dialing automatically after a preset time.

Redialing Automatically

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <FAX SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <TX SETTINGS>, then press [OK].**
4. **Use [◄–] or [+►] to select <AUTO REDIAL>, then press [OK].**
5. **Use [◄–] or [+►] to select <ON>, then press [OK].**
6. **Confirm that <REDIAL TIMES> is displayed, then press [OK].**
7. **Use [◄–], [+►], or numeric keys to enter the number of redials the machine will make, then press [OK].**
8. **Confirm that <REDIAL INTERVAL> is displayed, then press [OK].**

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9. **Use [◄–], [+►], or numeric keys to enter the time (in minutes) between redials, then press [OK].**

10. **Confirm that <TX ERROR REDIAL> is displayed, then press [OK].**

11. **Use [◄–] or [+►] to select <ON> or <OFF>, then [OK].**

    <ON>: Resends all documents once if final transmission made by automatic redialing is interrupted.
    <OFF>: Does not redial when final transmission is interrupted.

12. **Press [Stop] to return to standby mode.**

Switching Temporarily to Tone Dialing

If your machine is set for pulse dialing, use the procedure below to switch to tone dialing to use information services (e.g., banks, airline reservations, and hotel reservations).

NOTE

To talk to the other party, you will need to connect an external telephone to the machine.

1. **Press [FAX].**

2. **Press [Hook].**

   NOTE

   Make sure to confirm the dial tone before entering a fax number. If you enter the number before the dial tone can be heard, the call may not be connected, or the wrong number may be dialed.

3. **Use the numeric keys to dial the required information service.**

4. **When the recorded message of the information service answers, press [Tone] to switch to tone dialing.**

5. **Use the numeric keys to enter the numbers requested by the information service.**

6. **If you want to receive faxes, press [Start].**

7. **When finished, press [Hook] to disconnect the call.**

   Tone dialing is canceled when you disconnect the call.

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Dialing an Overseas Number (With Pauses)

When you dial or register an overseas number, you may need to insert a pause within the number.

1. **Set documents.**
2. **Press [FAX].**
3. **Use the numeric keys to dial the international access code.**

   For details on international access codes, contact your local telephone company.

4. **If necessary, press [Pause] to enter a two-second pause.**

   Ex.

   ```
   TEL=123p
   ```

   – <p> in the fax/telephone number represents a certain amount of pause time, set in the <PAUSE TIME> menu.
   – For a longer pause press [Pause] again.

5. **Use the numeric keys to dial the country code, the area code, and the fax/telephone number of the recipient.**
6. **Press [Pause] to enter a 10- second pause at the end of the number.**

   <P> at the end of the fax/telephone number represents a 10-second pause.

7. **Press [Start].**

Optional Settings for One-Touch/Coded Speed Dialing

You can specify the following advanced function settings for each one-touch/coded speed dialing recipient registered in the machine: international, TX speed, and ECM (Error Correction Mode) transmission options.

1. **Press [Additional Functions].**
2. **Press [◄–] or [+►] to select <ADDRESS BOOK SET.>, then press [OK].**

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3. **Press [◄–] or [+►] to select <1-TOUCH SPD DIAL> or <CODED SPD DIAL>, then press [OK].**

4. **Use the one-touch speed dialing key, or [Coded Dial] and the numeric key (for a two-digit code), to select the desired recipient, then press [OK].**

   You can also select a one-touch/coded speed dialing recipient with [◄–] or [+►].

5. **Press [◄–] or [+►] to select <OPTIONAL SETTING>, then press [OK].**

6. **Press [◄–] or [+►] to select <ON>, then press [OK].**

7. **Confirm that <INTERNATIONAL> is displayed, then press [OK].**

8. **Press [◄–] or [+►] to select the most effective transmission option, then press [OK].**

   <DOMESTIC>: Normally select this option.
   <LONG DISTANCE 1-3>: Select one of these options if you experience transmission errors during an international call.

9. **Confirm that <TX SPEED> is displayed, then press [OK].**

10. **Press [◄–] or [+►] to select the sending speed (4800 bps to 33600 bps), then press [OK].**

    NOTE
    If transmission errors occur frequently, lower the speed.

11. **Confirm that <ECM> is displayed, then press [OK].**

12. **Press [◄–] or [+►] to select <ON> to reduce system and line errors while sending to or receiving from other machines that support ECM, then press [OK].**

13. **Press [Stop] to return to standby mode.**

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Receiving Features

You can set the receive mode that suits your needs. The machine also provides the following receiving features: memory reception, and remote reception.

Setting Receive Mode

To determine the right mode for you, see “Set the Machine for Receiving Faxes,” in the Starter Guide.

1. Press [Additional Functions].

2. Use [◄–] or [+►] to select <FAX SETTINGS>, then press [OK].

3. Confirm that <RX MODE> is displayed, then press [OK].

4. Use [◄–] or [+►] to select the desired receive mode, then press [OK].

<FaxOnly>: Answers all calls as faxes.
<FaxTel>: Switches between fax and voice calls automatically. For optional settings, see “FaxTel: Optional Settings,” on p. 1-9.
<AnsMode>: Receives faxes automatically and records voice messages.
<DRPD> (Distinctive Ring Pattern Detection): Distinguishes between fax and voice calls using distinctive ring patterns. Select the ring pattern assigned by your telephone company. For optional settings, see “DRPD: Optional Settings,” on p. 1-10.
<Manual>: Does not answer any calls. You have to manually receive faxes.

NOTE

- For <FaxTel> or <Manual>, make sure an external telephone is connected to the machine.
- For <AnsMode>, make sure an answering machine is connected to the machine.
- For <DRPD>, subscription to a DRPD service is required. Contact your telephone company for availability.

5. Press [Stop] to return to standby mode.

Manual Reception

When you select <Manual> in <RX MODE>, follow the procedure below to receive a fax.

1. When the telephone rings, pick up the external telephone.

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2. Confirm that the modem's connecting sound is heard, then press [Start].
3. Hang up the external telephone.

FaxTel: Optional Settings

If required, change the optional settings as follows:

1. Press [Additional Functions].
2. Use [◄–] or [+►] to select <FAX SETTINGS>, then press [OK].
3. Use [◄–] or [+►] to select <RX SETTINGS>, then press [OK].
4. Use [◄–] or [+►] to select <FAX/TEL OPT. SET>, then press [OK].
5. Confirm that <RING START TIME> is displayed, then press [OK].
6. Use [◄–], [+►], or the numeric keys to select the duration (0 to 30 seconds) for which the machine detects the fax tone before it starts ringing, then press [OK].
7. Confirm that <F/T RING TIME> is displayed, then press [OK].
8. Use [◄–] or [+►] to select the duration (15 to 300 seconds) for the phone to ring, then press [OK].
9. Confirm that <F/T SWITCH ACTION> is displayed, then press [OK].
10. Use [◄–] or [+►] to select the action the machine will take after the ringing ends, then press [OK].

    <RECEIVE>: Switches to receive mode.
    <DISCONNECT>: Disconnects the call.
11. Press [Stop] to return to standby mode.

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DRPD: Optional Settings

If required, change the optional settings as follows:

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <FAX SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <RX SETTINGS>, then press [OK].**
4. **Use [◄–] or [+►] to select <DRPD:SELECT FAX>, then press [OK].**
5. **Use [◄–] or [+►] to select a ring pattern, then press [OK].**

   <DOUBLE RING>
   <SHORT-SHORT-LONG>
   <SHORT-LONG-SHORT>
   <OTHER RING TYPE>
   <NORMAL RING>
6. **Press [Stop] to return to standby mode.**

Memory Reception

The machine automatically receives faxes in memory when printing is disabled under certain conditions (e.g., toner or paper has run out). You can also set the machine to store all documents in memory without automatically printing them.

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <COMMUNICATIONS>, then press [OK].**
4. **Use [◄–] or [+►] to select <MEMORY LOCK>, then press [OK].**
5. **Use [◄–] or [+►] to select <ON>, then press [OK].**

   NOTE
   When you select <OFF>, the machine starts to print the received documents in memory.

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6. Confirm that <PASSWORD> is displayed, then press [OK].

7. Use the numeric keys to enter the memory reception password (up to seven digits), then press [OK].

Ex.

```
PASSWORD
1234567_
```

8. Confirm that <REPORT PRINT> is displayed, then press [OK].

9. Use [◄–] or [+►] to select <ON> or <OFF>, then press [OK].

<ON>: Prints a memory reception report.
<OFF>: Does not print a memory reception report.

10. Confirm that <MEMORY RX TIME> is displayed, then press [OK].

Perform steps 10 to 15 to specify the period of memory reception.

11. Use [◄–] or [+►] to select <ON>, then press [OK].

12. Confirm that <MEM RX START TIME> is displayed, then press [OK].

13. Use the numeric keys to enter the start time (in 24-hour format), then press [OK].

Ex.

```
MEM RX START TIME
        00:00
```

14. Confirm that <MEM. RX END TIME> is displayed, then press [OK].

15. Use the numeric keys to enter the end time, then press [OK].

16. Press [Stop] to return to standby mode.

Printing All Documents Stored in Memory

1. Perform steps 1 to 3 in “Memory Reception,” on p. 1-10.

2. Use [◄–] or [+►] to select <MEMORY LOCK>, then press [OK]

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3. Use the numeric keys to enter the memory reception password, then press [OK].

4. Use [◄–] or [+►] to select <OFF>, then press [OK].

Remote Reception

Remote reception enables you to use an external telephone connected to the machine to receive faxes manually. This can be useful when the machine is not nearby or is being used by someone else.

NOTE

This function is not available when <ENERGY IN SLEEP> in <COMMON SETTINGS> is set to <LOW>.

Registering Remote Reception ID

Follow this procedure if you want to change the default remote reception ID of 25.

1. Press [Additional Functions].

2. Use [◄–] or [+►] to select <FAX SETTINGS>, then press [OK].

3. Use [◄–] or [+►] to select <RX SETTINGS>, then press [OK].

4. Use [◄–] or [+►] to select <REMOTE RX>, then press [OK].

5. Use [◄–] or [+►] to select <ON>, then press [OK].

6. Press [Clear] twice to delete the default remote reception ID of 25.

7. Use the numeric keys to enter a new remote reception ID (00 to 99), then press [OK].

8. Press [Stop] to return to standby mode.

Receiving a Fax Remotely

1. When you receive a call, pick up the external telephone.

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2. **Use the numeric keys to enter the two-digit remote reception ID to start reception.**

3. **When the reception is complete, hang up the telephone.**

Printing Received Documents

The machine provides the following printing features: received image reduction and two-sided printing.

Received Image Reduction

You can print received documents in a reduced size.

1. **Press [Additional Functions].**

2. **Use [◄–] or [+►] to select <FAX SETTINGS>, then press [OK].**

3. **Use [◄–] or [+►] to select <PRINTER SETTINGS>, then press [OK].**

4. **Confirm that <RECEIVE REDUCTION> is displayed, then press [OK].**

5. **Use [◄–] or [+►] to select <ON>, then press [OK].**

6. **Use [◄–] or [+►] to select <RECEIVE REDUCTION> or <REDUCE DIRECTION>, then press [OK].**

   If you select <REDUCE DIRECTION>, skip to step 10.

7. **Use [◄–] or [+►] to select <AUTO> or <FIXED REDUCTION>, then press [OK].**

   If you select <AUTO>, adjust the image reduction automatically. Skip to step 9.

8. **Use [◄–] or [+►] to select a preset reduction ratio (97%, 95%, 90%, or 75%), then press [OK].**

9. **Confirm that <REDUCE DIRECTION> is displayed, then press [OK].**

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10. **Use [◄–] or [+►] to select <VERTICAL ONLY> or <HORIZ & VERTICAL>, then press [OK].**

<VERTICAL ONLY>: Reduces the document vertically only.
<HORIZ & VERTICAL>: Reduces the document both horizontally and vertically.

11. **Press [Stop] to return to standby mode.**

Two-Sided Printing

You can print received documents on both sides of the paper.

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <FAX SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <PRINTER SETTINGS>, then press [OK].**
4. **Use [◄–] or [+►] to select <TWO-SIDED PRINT>, then press [OK].**
5. **Use [◄–] or [+►] to select <ON>, then press [OK].**
6. **Press [Stop] to return to standby mode.**

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Additional Fax Modes

The machine provides the following additional fax modes: broadcasting, delayed sending, and sending two-sided documents.

Broadcasting

Broadcasting enables you to send the same document to multiple recipients.

1. **Set documents.**
2. **Press [FAX].**
3. **Use the numeric keys, one-touch speed dialing key, coded speed dialing code, or address book dialing to enter a recipient.**
4. **Repeat step 3 to enter all required recipients (up to 124), then press [Start].**

NOTE
You can only enter one recipient by regular dialing with the numeric keys.

Delayed Sending

Delayed sending enables you to start transmission at a specified time. You can combine other fax features with delayed sending.

1. **Set documents.**
2. **Press [FAX].**
3. **Press [Delayed TX].**
4. **Use the numeric keys to enter the time you want to start sending, then press [OK].**
   - Enter the time in the 24-hour format.
   - Enter all the numbers, including zeros.

Ex.

```
TX TIME SETTING
20:00
```

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5. Use the numeric keys, one-touch speed dialing key, coded speed dialing code, or address book dialing to enter a recipient.

You can send the same document to a maximum of 124 recipients, at a preset time.

6. Press [Start].

NOTE

– When <TIME OUT> is set to <ON> in <TX SETTINGS> in <FAX SETTINGS>, the machine starts dialing automatically after the preset time for this setting is passed. However, when you manually enter a recipient, be sure to press [Start].
– If the specified time for delayed sending passes during a temporary power failure (that recovers within a hour), the fax document will be sent at the specified time on the next day.

Sending Two-Sided Documents

You can set the machine to automatically turn over two-sided documents in the ADF, and scan each side separately.

1. Set documents in the ADF.

2. Press [FAX].

3. Press [Two-Sided].

4. Use [◄–] or [+►] to select <BOOK TYPE> or <CALENDAR TYPE>, then press [OK].

<BOOK TYPE>: The front and back sides of the document have the same top-bottom orientation.
<CALENDAR TYPE>: The front and back sides of the document have opposite top-bottom orientations.

5. Use the numeric keys, one-touch speed dialing key, coded speed dialing code, or address book dialing to enter a recipient.

6. Press [Start].

To cancel all settings and return to standby mode, press [Stop].

NOTE

– When <TIME OUT> is set to <ON> in <TX SETTINGS> in <FAX SETTINGS>, the machine starts dialing automatically after the preset time for this setting is passed. However, when you manually enter a recipient, be sure to press [Start].
– If the specified time for delayed sending passes during a temporary power failure (that recovers within a hour), the fax document will be sent at the specified time on the next day.

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Canceling Fax Jobs

Cancel an ongoing job (sending or receiving) as follows.

1. Press [Stop].
2. When the <STOP KEY PRESSED> message appears, press [OK].

Ex.

```
STOP KEY PRESSED
PRESS OK KEY
```

When the <CANCEL DURING TX/RX?> message appears, press [◄–] to select <YES>.

Ex.

```
CANCEL DURING TX/RX?
 <YES          NO>
```

NOTE

For sending jobs, remove any unscanned documents from the ADF.

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Advanced Copy Features

Collate Copy

You can copy documents collated into sets arranged in page order. This feature can be used together with both “Two-Sided Copying” (see p. 2-3) and “2 on 1 Combination” (see p. 2-5).

1. Set documents.

Place the first page on the platen glass if you are not using the ADF.

2. Press [COPY].

NOTE

If <AUTO COLLATE> is set to <COLLATE> in <STANDRD SETTINGS> in <COPY SETTINGS>, skip steps 3 and 4.

3. Press [Collate].

<COLLATE> appears in the LCD.

4. Use [◄–] or [+►] to select <ON>, then press [OK].

5. Use the numeric keys to enter the desired copy quantity (1 to 99).

6. Press [Start].

When the documents are loaded in the ADF, collate copying starts and no further operation is required.

7. Place the next page of the document on the platen glass, then press [Start].

Repeat this step to scan all pages. The machine prints only one copy of each page.

8. Press [OK].

– The machine prints the remaining sets of copies.
– To cancel all settings, press [Reset].

NOTE

When scanning multiple page documents, <MEMORY FULL> may appear in the LCD and scanning may be canceled. If this happens, press [Stop] to return to standby mode.

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Reserved Copy

You can make copy settings and scan documents even if the machine is currently printing. The scanned documents are processed after the current job is complete.

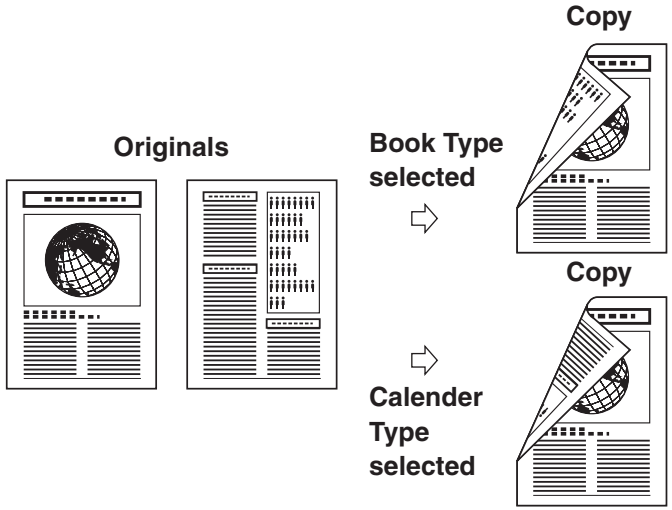
1. **Set documents.**
2. **Press [COPY].**
3. **Set the desired copy mode and quantity (1 to 99), then press [Start].**

   You can reserve up to 5 copy jobs, with different settings for each job.

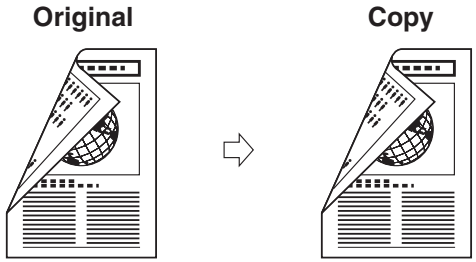
Two-Sided Copying

Two-sided copying enables you to make two-sided copies from one-sided or two-sided documents, or make one-sided copies from two-sided documents. This feature can be used together with both “Collate Copy” (see p. 2-2) and “2 on 1 Combination” (see p. 2-5).

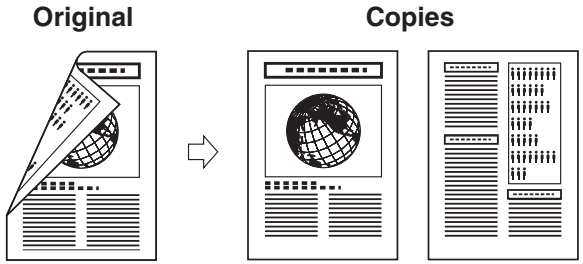
1 to 2-Sided Copying



2 to 2-Sided Copying



2 to 1-Sided Copying



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NOTE

Paper used to make two-sided copies must conform to the following specifications:
– Paper size: LGL and LTR (A4 loaded on the multi-purpose tray are available as well.)
– Paper weight: 18 to 24 lb [64 to 90 g/m^2]

1 to 2-Sided

You can make two-sided copies from one-sided documents.

1. **Set documents.**
2. **Press [COPY].**
3. **Press [Two-Sided].**
4. **Use [◄–] or [+►] to select <1 > 2-SIDED>, then press [OK].**
5. **Use [◄–] or [+►] to select <BOOK TYPE> or <CALENDAR TYPE>, then press [OK].**

   <BOOK TYPE>: The front and back sides of the copy will have the same top-bottom orientation.
   <CALENDAR TYPE>: The front and back sides of the copy will have opposite top-bottom orientations.
6. **Press [Start].**

   To cancel all settings, press [Reset].

NOTE

When you set the document on the platen glass, press [Start] for each document. When scanning is complete, press [OK].

2 to 2-Sided

You can make two-sided copies from two-sided documents.

1. **Set documents.**
2. **Press [COPY].**
3. **Press [Two-Sided].**
4. **Use [◄–] or [+►] to select <2 > 2-SIDED>, then press [OK].**
5. **Use [◄–] or [+►] to select <BOOK TYPE> or <CALENDAR TYPE> (for the documents), then press [OK].**

   <BOOK TYPE>: The front and back sides of the document have the same top-bottom orientation.
   <CALENDAR TYPE>: The front and back sides of the document have opposite top-bottom orientations.

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6. Use [◄–] or [+►] to select <BOOK TYPE> or <CALENDAR TYPE> (for the copies), then press [OK].

7. Press [Start].

To cancel all settings, press [Reset].

NOTE

When you set the document on the platen glass, press [Start] for each document. When scanning is complete, press [OK].

2 to 1-Sided

You can make one-sided copies from two-sided documents.

1. Set documents.

2. Press [COPY].

3. Press [Two-Sided].

4. Use [◄–] or [+►] to select <2 > 1-SIDED>, then press [OK].

5. Use [◄–] or [+►] to select <BOOK TYPE> or <CALENDAR TYPE>, then press [OK].

<BOOK TYPE>: The front and back sides of the document have the same top-bottom orientation.
<CALENDAR TYPE>: The front and back sides of the document have opposite top-bottom orientations.

6. Press [Start].

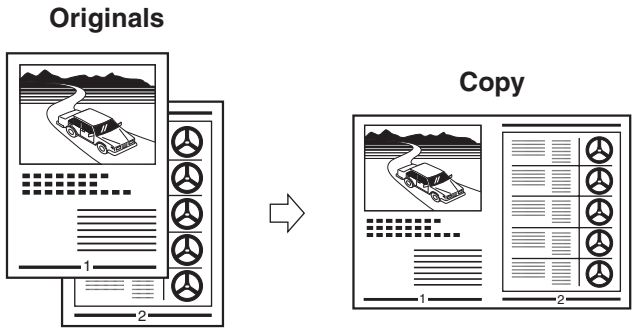
To cancel all settings, press [Reset].

NOTE

When you set the document on the platen glass, press [Start] for each document. When scanning is complete, press [OK].

2 on 1 Combination

2 on 1 combination automatically reduces two documents to fit on the selected paper size. This feature can be used together with both “Collate Copy” (see p. 2-2) and “Two-Sided Copying” (see p. 2-3).



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1. **Set documents.**
2. **Press [COPY].**
3. **Press [2 on 1].**
4. **Use [◄–] or [+►] to select <ON>, then press [OK].**
5. **Use [◄–] or [+►] to select the size of the document, then press [OK].**
6. **Use [◄–] or [+►] to select the paper size, then press [OK].**
7. **Use the numeric keys to enter the desired copy quantity (1 to 99).**
8. **Press [Start].**

To cancel all settings, press [Reset].

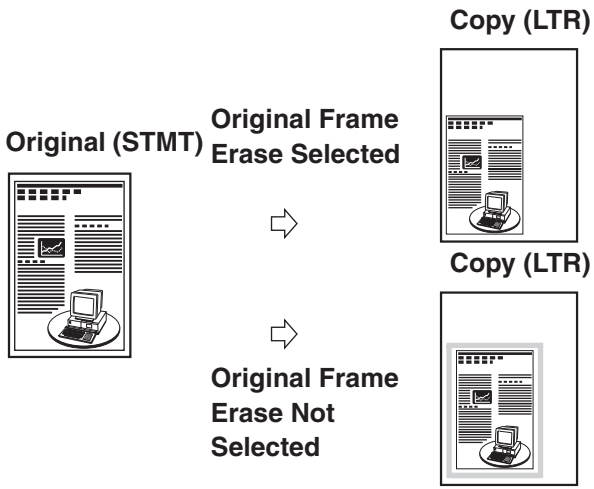
NOTE

– When you set the document on the platen glass, press [Start] for each document. When scanning is complete, press [OK].
– A maximum of 1/8" (2 to 3 mm) margin will be produced between the two reduced documents in 2 on 1 combination copying.

Frame Erase

You can erase shadows and lines that appear when copying various types of documents.

Original Frame Erase Copying



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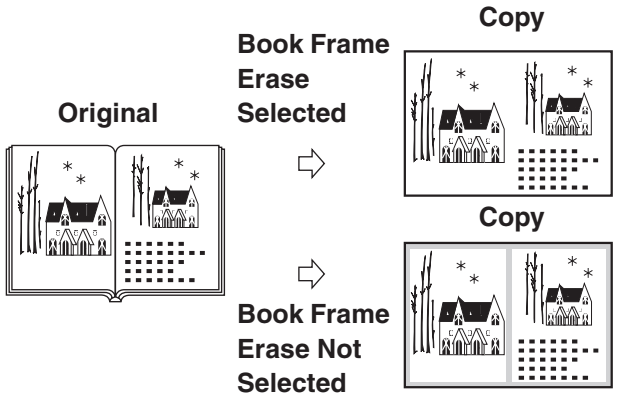
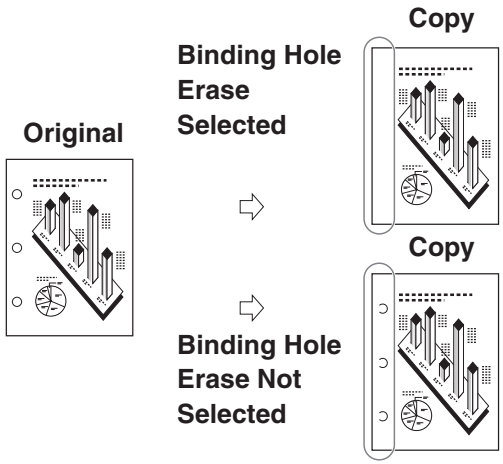
Book Frame Erase Copying



Binding Hole Frame Erase Copying



Original Frame Erase

Original frame erase can erase the dark borders and frame lines that appear around the copy when the document is smaller than the selected paper size.

1. **Set documents.**
2. **Press [COPY].**
3. **Press [Frame Erase].**
4. **Use [◄–] or [+►] to select <ORIGINAL FR.>, then press [OK].**
5. **Use [◄–] or [+►] to select the size of the document, then press [OK].**
6. **Use [◄–], [+►] to set the frame erase width for all four borders, then press [OK].**

   The width ranges 1/16" to 1 15/16" (1 to 50 mm).

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7. **Use the numeric keys to enter the desired copy quantity (1 to 99).**

8. **Press [Start].**

   To cancel all settings, press [Reset].

Book Frame Erase

Book frame erase can erase the dark borders, as well as center and contour lines that appear when copying facing pages in a book or bound document onto a single sheet of paper.

1. **Set documents.**

2. **Press [COPY].**

3. **Press [Frame Erase].**

4. **Use [◄–] or [+►] to select <BOOK FRAME>, then press [OK].**

5. **Use [◄–] or [+►] to select the book size, then press [OK].**

6. **Use [◄–], [+►] to set the book frame erase width for all four borders, then press [OK].**

   The book frame erase width ranges 1/16" to 1 15/16" (1 to 50 mm).

7. **Use [◄–], [+►] to set the frame erase width for the center of the book, then press [OK].**

   The width ranges 1/16" to 1 15/16" (1 to 50 mm).

8. **Use the numeric keys to enter the desired copy quantity (1 to 99).**

9. **Press [Start].**

   To cancel all settings, press [Reset].

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Binding Hole Erase

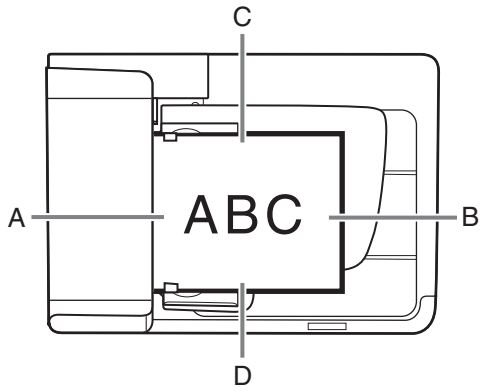
Binding hole erase can erase the shadows that appear on copies from binding holes on the documents.

1. **Set documents.**
2. **Press [COPY].**
3. **Press [Frame Erase].**
4. **Use [◄–] or [+►] to select <BINDING HOLE>, then press [OK].**
5. **Use [◄–] or [+►] to specify the location of the binding holes (<LEFT>, <RIGHT>, <TOP>, or <BOTTOM>), then press [OK].**
6. **Use [◄–], [+►] to set the binding hole erase width, then press [OK].**

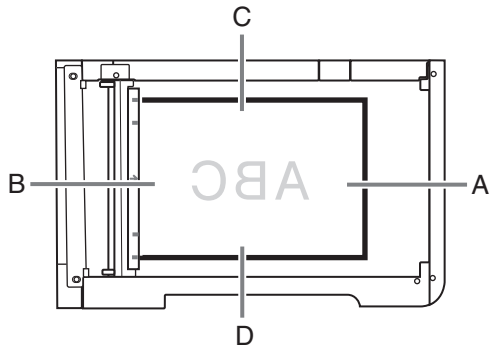
   The width ranges 3/16" to 13/16" (3 to 20 mm)
7. **Use the numeric keys to enter the desired copy quantity (1 to 99).**
8. **Press [Start].**

   To cancel all settings, press [Reset].

The locations of the binding holes to be erased are shown in the illustration below.



ADF



Platen Glass

A: LEFT
B: RIGHT
C: TOP
D: BOTTOM

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Canceling Copy Jobs

Cancel an ongoing job as follows.

1. Press [Stop].

2. When the <STOP KEY PRESSED> message appears, press [OK].

Ex.

```
STOP KEY PRESSED
PRESS OK KEY
```

When the <CANCEL COPYING?> message appears, press [◄–] to select <YES>.

Ex.

```
CANCEL COPYING?
 <YES          NO>
```

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System Requirements

A TCP/IP network and the following system environment are required for printing or sending a fax from a computer:

- **OS**
  - Microsoft Windows 98/98SE
  - Microsoft Windows Me
  - Microsoft Windows 2000 Server
  - Microsoft Windows 2000 Professional
  - Microsoft Windows XP Home Edition
  - Microsoft Windows XP Professional
  - Microsoft Windows Server 2003
- **Computers**
  - Windows; IBM PC/compatibles
- **Web Browsers (for Remote UI)**
  - Microsoft Internet Explorer 5.01 SP1 or later
  - Netscape Communicator/Navigator 6.0 or later, except Netscape Communicator 6

NOTE

- If you are using Windows 98, Me, you need to install Service Pack 3 or later.
- The machine does not support NetBEUI.
- For more information on the equipment needed, consult your local authorized Canon dealer.

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Using a TCP/IP Network

This chapter describes the settings and procedures necessary to connect and use the machine with a TCP/IP network.

1. Network Cable Connection (See "Installing/Uninstalling Software," in the Starter Guide.)

Connect the machine to your network using the network cables.

2. Interface Settings (See p. 3-5)

Specify the interface settings for communication between the machine and computers on your network. To specify the settings, use:
- Machine's operation panel
- Web browser (Remote UI)

3. Communication Environment Setup (See p. 3-7)

Set up a configuration for communication between the machine and computers on your network. To specify the settings, use:
- Machine's operation panel
- Web browser (Remote UI)

4. Preparation for Protocol Settings (See p. 3-10)

Specify the machine's IP address to make the machine and the network computer can communicate before making protocol settings. Any of the following can be used to specify the settings.
- Machine's operation panel (Additional Functions menu)
- ARP/PING commands
- NetSpot Device Installer (Canon utility software included in the User Software CD)

5. Protocol Settings (See p. 3-16)

Specify the machine's protocol settings. Any of the following can be used to specify the settings.
- Machine's operation panel (Additional Functions menu)
- Web browser (Remote UI)
- NetSpot Device Installer (Canon utility software included in the User Software CD)

6. Setting Up a Computer for Printing/Sending a Fax (See p. 3-22)

Specify the settings for each computer you use for printing/sending a fax.

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Interface Settings

Ethernet Driver

You can specify the communication method and Ethernet connection type.

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <NETWORK SETTINGS>, then press [OK].**
4. **Use [◄–] or [+►] to select <ETHERNET DRIVER>, then press [OK].**
5. **Confirm that <AUTO DETECT> is displayed, then press [OK].**
6. **Use [◄–] or [+►] to select the desired detection method, then press [OK].**

   <AUTO>: Automatically determines the communication mode (Half duplex/Full duplex) and Ethernet type (10Base-T/100Base-TX). Skip to step 11.
   <MANUAL>: You have to manually specify the communication mode and Ethernet type.

   NOTE

   If you reconnect the network cable (for example, reconnect the cable to a different Ethernet hub) with the power on, the Auto Detect function will not work even if you set <AUTO DETECT> to <AUTO>. (Connect the cable with the power off.)

7. **Confirm that <DUPLEX> is displayed, then press [OK].**
8. **Use [◄–] or [+►] to select the desired communication method, then press [OK].**

   <HALF DUPLEX>: Sends and receives alternately.
   <FULL DUPLEX>: Sends and receives simultaneously.

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9. **Confirm that <ETHERNET TYPE> is displayed, then press [OK].**

10. **Use [◄–] or [+►] to select the desired Ethernet connection type, then press [OK].**

    <10 BASE-T>: Establish a 10Base-T network connection.
    <100 BASE-TX>: Establish a 100Base-TX network connection.

11. **Press [Stop] to return to standby mode.**

12. **Restart the machine.**

Device USB

You can set whether or not to restrict jobs through the USB interface.

1. **Press [Additional Functions].**

2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**

3. **Use [◄–] or [+►] to select <USE DEVICE USB>, then press [OK].**

4. **Use [◄–] or [+►] to select <ON>, then press [OK].**

5. **Press [Stop] to return to standby mode.**

6. **Restart the machine.**

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Communication Environment Setup

This section describes two additional protocols supported for this machine: HTTP (HyperText Transfer Protocol) and SNMP (Simple Network Management Protocol).

HTTP

HTTP helps communicate between your computer and the machine via a web interface (e.g., Remote UI).

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <NETWORK SETTINGS>, then press [OK].**
4. **Confirm that <TCP/IP SETTINGS> is displayed, then press [OK].**
5. **Use [◄–] or [+►] to select <USE HTTP>, then press [OK].**
6. **Use [◄–] or [+►] to select <ON>, then press [OK].**
7. **Use the numeric keys to enter the HTTP port number, then press [OK].**
8. **Press [Stop] to return to standby mode.**
9. **Restart the machine.**

SNMP

SNMP helps monitor the state of the machine and collects information on it. The following two items can be set:

<COMMUNITY NAME>:
Sets the SNMP community name. You can specify up to two community names.
<SNMP WRITABLE>:
Enables the computers on the network to access the machine and modify its settings if this item is activated. You can specify this setting for each community separately.

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1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <NETWORK SETTINGS>, then press [OK].**
4. **Use [◄–] or [+►] to select <SNMP SETTINGS>, then press [OK].**
5. **Confirm that <USE SNMP> is displayed, then press [OK].**
6. **Use [◄–] or [+►] to select <ON> or <OFF>, then press [OK].**

   <ON>: When you set or browse each item of the machine with a utility that uses SNMP to obtain information.
   <OFF>: When you do not use an SNMP utility. Skip to step 16.

7. **Use the numeric keys to enter the SNMP port number, then press [OK].**

   NOTE

   – If you want to use a Canon printer driver or utility, select <ON> for both <USE SNMP> and <DEDICATED PORT>.
   – You can restrict the IP addresses of computers on which items can be set or browsed. If you restrict the IP addresses, it is not possible to use the Remote UI to set or browse detailed information on computers other than those whose IP addresses are allowed, even if both <USE SNMP> and <DEDICATED PORT> are <ON>. For details, see “Protocol Settings,” on p. 3-16.

8. **Confirm that <COMMUNITY NAME 1> is displayed, then press [OK].**
9. **Use the numeric keys to enter the desired community name other than “public,” then press [OK].**
10. **If you want to specify <COMMUNITY NAME 2>, press [OK].**

    Otherwise, press [+►], then skip to step 12.

11. **Use the numeric keys to enter the desired community name, then press [OK].**
12. **Confirm that <SNMP WRITABLE 1> is displayed, then press [OK].**
13. **Use [◄–] or [+►] to select <ON>, then press [OK].**

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14. **If you want to specify <SNMP WRITABLE 2>, press [OK].**

Otherwise, Skip to step 16.

15. **Use [◄–] or [+►] to select <ON>, then press [OK].**

16. **Press [Stop] to return to standby mode.**

17. **Restart the machine.**

Dedicated Port

To set or browse detailed information on the machine with a Canon printer driver or utility, set <DEDICATED PORT> to <ON>.

NOTE

– If you want to use a Canon printer driver or utility, select <ON> for both <USE SNMP> and <DEDICATED PORT>.
– You can restrict the IP addresses of computers on which items can be set or browsed. If you restrict the IP addresses, it is not possible to use the Remote UI to set or browse detailed information on computers other than those whose IP addresses are allowed, even if both <USE SNMP> and <DEDICATED PORT> are <ON>. For details, see “Protocol Settings,” on p. 3-16.

1. **Press [Additional Functions].**

2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**

3. **Use [◄–] or [+►] to select <NETWORK SETTINGS>, then press [OK].**

4. **Use [◄–] or [+►] to select <DEDICATED PORT>, then press [OK].**

5. **Use [◄–] or [+►] to select <ON> or <OFF>, then press [OK].**

<OFF>: If you are not using a Canon printer driver or utility.
<ON>: If you want to set or browse detailed information on the machine with a Canon printer driver or utility.

6. **Press [Stop] to return to standby mode.**

7. **Restart the machine.**

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Preparation for Protocol Settings

Before you specify the machine's protocol settings, you must specify the machine's IP address to enable communication between the machine and your computers. You can use any of the following to specify the settings.

– Machine's operation panel (Additional Functions menu)

– ARP/PING commands

– NetSpot Device Installer (Canon utility software)

NOTE

– In the following operations in this section, the machine's MAC address is necessary. To check the MAC address from the machine's operation panel, print a USER'S DATA LIST. (See Chapter 13, "Machine Settings," in the Basic Guide.)

– If you are using ARP/PING commands, the following steps directly allocate the IP address to the machine. For this machine, in addition to direct allocation of the IP address to the machine, you can use DHCP, BOOTP, or RARP to specify the IP address. When the machine is started or reset, it checks whether DHCP, BOOTP, or RARP is being used, and then allocates the IP address using the first available setting method. Because the machine's IP address is automatically allocated at this time, it is not necessary for you to perform the following operations in this section. However if you are reallocating the IP address, or if DHCP, BOOTP, or RARP cannot be used, perform the following operations.

– You can maintain security by setting a range of IP addresses of computers that are allowed to obtain access to the machine.
Once you set the range of IP addresses of computers on which items for the machine can be set or browsed, it is not possible to use the Remote UI on computers whose IP addresses are not allowed; a utility on the computers cannot be used to set or browse detailed information concerning the machine.
Once you set the range of IP addresses of computers from which data (print/fax job) can be sent to the machine, the machine rejects data sent from computers whose IP addresses are not allowed. For instructions on how to specify the IP address range, see "TCP/IP Settings," on p. 3-16.

Settings from the Operation Panel of the Machine

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <NETWORK SETTINGS>, then press [OK].**

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4. **Confirm that <TCP/IP SETTINGS> is displayed, then press [OK].**

5. **Use [◄–] or [+►] to select the allocation method of the IP address, then press [OK].**

   <IP ADDRESS AUTO.>: Allocates an IP address to the machine automatically.
   <IP ADDRESS>: Allocates a fixed IP address to the machine. Skip to step 9.

6. **Use [◄–] or [+►] to select <ON>, then press [OK].**

7. **Use [◄–] or [+►] to select the desired protocol (DHCP, BOOTP, or RARP), then press [OK].**

8. **Use [◄–] or [+►] to select <ON>, then press [OK].**

   Skip to step 14.

9. **Use the numeric keys to enter the IP address number, then press [OK].**

10. **Confirm that <SUBNET MASK> is displayed, then press [OK].**

11. **Use the numeric keys to enter the subnet mask number, then press [OK].**

12. **Confirm that <GATEWAY ADDRESS> is displayed, then press [OK].**

13. **Use the numeric keys to enter the gateway address number, then press [OK].**

14. **Press [Stop] to return to standby mode.**

15. **Restart the machine.**

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Checking the Current Network Settings

1. Press [Additional Functions].
2. Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].
3. Use [◄–] or [+►] to select <NETWORK SETTINGS>, then press [OK].
4. Use [◄–] or [+►] to select <VIEW IP ADDRESS>, then press [OK].
5. Use [◄–] or [+►] to select <IP ADDRESS>, <SUBNET MASK>, or <GATEWAY ADDRESS> for displaying the setting you want to check, then press [OK].
6. Press [Stop] to return to standby mode.

Settings Using ARP/PING Commands

1. Start up the MS-DOS prompt or the Command prompt.
2. Execute the following command to add a static entry to the arp table.

   arp -s <IP Address> <MAC Address>
   <IP Address>: Specify the IP address you want to allocate to the machine. The IP address consists of four numbers ranging from 0 to 255 with "." as the breakpoint.
   <MAC Address>: Specify the MAC address of the machine. Every second digit is separated by "-".
   Input Example: arp -s 172.20.88.125 00-00-85-05-70-31

3. Execute the applicable command below to set the IP address to the network board.

   ping <IP Address> -l 479
   <IP Address>: Specify the same address as the IP address you specified in step 2 above.
   Input Example: ping 172.20.88.125 -l 479

   NOTE
   – The character in "-l" is the letter "l."
   – The subnet mask address is set as <255.255.255.0> and the gateway address is set as <0.0.0.0>.

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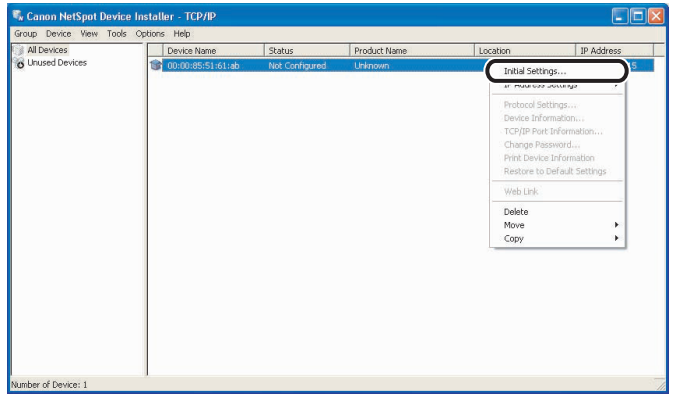
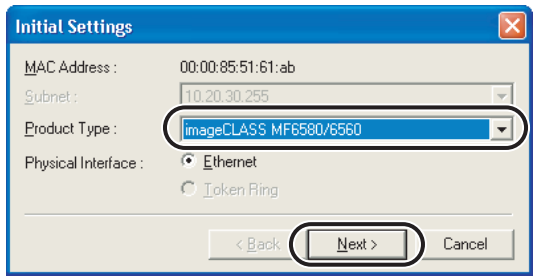
Settings Using NetSpot Device Installer

1. Insert the CD-ROM supplied with the machine into the CD-ROM drive.
2. Double-click the [My Computer] icon on the desk top → right-click the CD-ROM drive icon → select [Open].
3. In the [NetSpot_Device_Installer] folder on the CD-ROM, run [nsdi].
4. From the list, select the device whose name (listed under [Device Name]) is the MAC address of the machine with <Not Configured> displayed in [Status].
5. Right-click the selected device → select [Initial Settings].



6. In the [Initial Settings] dialog box, specify the following items → click [Next].



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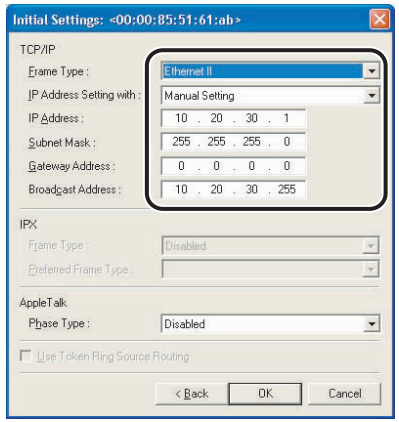
[Subnet] If the computer on which NetSpot Device Installer runs is connected to more than one network, select the subnet that the desired device belongs to.

[Product Type] Select the product name of your machine. If the product name of your machine is not displayed, select [imageCLASS MF6580/6560].

7. Specify the TCP/IP protocol.



[Frame Type] Select [Ethernet II].

[IP Address Settings with]

Select the method for setting the IP address.

[Manual Setting]:
You need to set the IP address manually. The IP address that you enter in [IP Address] is assigned to the network board.

[DHCP]:
The IP address is automatically obtained via DHCP (a DHCP server needs to be active on the network).

[IP Address] Enter the IP address assigned to the network board.

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[Subnet Mask] Enter the subnet mask used for the TCP/IP network.

[Gateway Address]

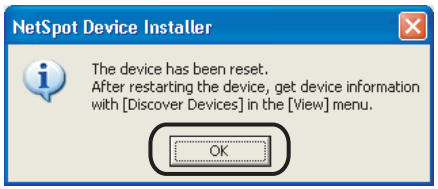
Enter the gateway address used for the TCP/IP network.

[Broadcast Address]

Enter the broadcast address used for the TCP/IP network.

8. Confirm the settings you specified → click [OK].

9. When the following message box appears, click [OK].



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Protocol Settings

You can specify the machine's protocol settings on the computer using any of the following software.

- **Machine's operation panel (Additional Functions menu)**
- **Web browser (Remote UI)**
- **NetSpot Console (via a web browser) (Canon utility software)**

NOTE

- For more details about NetSpot Console, see online help or the NetSpot Console readme file.
- To specify the protocol settings using NetSpot Console, you must log in as Administrator. For instructions on how to use NetSpot Console, see online help for NetSpot Console.
- If you change the IP address etc. on the web browser (Remote UI), the change is not reflected in the setting display. When you check on the machine, you can check by <VIEW IP ADDRESS> in <NETWORK SETTINGS> located in the <SYSTEM SETTINGS>, or by printing a USER'S DATA LIST. (See Chapter 13, "Machine Settings," in the Basic Guide.)

Settings from the Operation Panel of the Machine

TCP/IP Settings

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <NETWORK SETTINGS>, then press [OK].**
4. **Confirm that <TCP/IP SETTINGS> is displayed, then press [OK].**
5. **Use [◄–] or [+►] to select <USE LPD>, then press [OK].**

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6. **Use [◄–] or [+►] to select <ON> or <OFF>, then press [OK].**

   <ON>: Uses LPD as the print application.
   <OFF>: Does not use LPD. Skip to step 8.

7. **Use the numeric keys to enter the port number, then press [OK].**

8. **Confirm that <RAW SETTINGS> is displayed, then press [OK].**

9. **Use [◄–] or [+►] to select <ON> or <OFF>, then press [OK].**

   <ON>: Uses Raw as the print application.
   <OFF>: Does not use Raw. Skip to step 14.

10. **Confirm that <PORT NO.> is displayed, then press [OK].**

11. **Use the numeric keys to enter the port number, then press [OK].**

12. **Confirm that <USE BIDIRECTIONAL> is displayed, then press [OK].**

13. **Use [◄–] or [+►] to select <ON>, then press [OK].**

14. **Use [◄–] or [+►] to select <SET IP ADD RANGE>, then press [OK].**

15. **Use [◄–] or [+►] to select <ON>, then press [OK].**

16. **Confirm that <PERMIT/REJECT> is displayed, then press [OK].**

17. **Use [◄–] or [+►] to select <REJECT> or <PERMIT>, then press [OK].**

    <PERMIT>: Permits the IP addresses of computers from which data (print/fax job) can be sent to the machine.
    <REJECT>: Restricts the IP addresses of computers from which data (print/fax job) can be sent to the machine.

18. **Confirm that <SET IP ADDRESS> is displayed, then press [OK].**

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19. **Use [◄–] or [+►] to select from <IP ADDRESS 1> through <IP ADDRESS 4>, then press [OK].**

20. **Confirm that <START IP ADDRESS> is displayed, then press [OK].**

21. **Use the numeric keys to enter the start IP address, then press [OK].**

22. **Confirm that <END IP ADDRESS> is displayed, then press [OK]**

23. **Use the numeric keys to enter the end IP address, then press [OK].**

NOTE

To enter another IP address range, repeat steps 19 to 23.
After you specified the <END IP ADDRESS> of <IP ADDRESS 4>, confirm that <RX MAC ADD SET.> is displayed, press [OK], then skip to step 26.

24. **Use [Additional Functions] so that <SET IP ADD RANGE> in <TCP/IP SETTING> is displayed.**

25. **Use [◄–] or [+►] to select <RX MAC ADD SET.>, then press [OK].**

26. **Use [◄–] or [+►] to select <ON> or <OFF>, then press [OK].**

<OFF>: Disables a MAC address filter. Skip to step 29.
<ON>: Enables a MAC address filter.

NOTE

If you select <ON>, you will be unable to access from MAC addresses which have not been specified.

27. **Use [◄–] or [+►] to select from <PERMIT RX ADD1> through <PERMIT RX ADD5>, then press [OK].**

28. **Specify the MAC addresses to allow access to, then press [OK].**

Repeat steps 27 and 28 to specify other MAC addresses.

29. **Press [Stop] to return to standby mode.**

30. **Restart the machine.**

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Startup Time Settings

If you connect the machine to a switching hub, it may not be able to connect to a network even though your network settings are set correctly.
This occurs because the spanning tree process performed between switching hubs prevents them from communicating with each other immediately after the machine connects to a switching hub.
In this case, use the following procedure to delay the startup of network communication.

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <SYSTEM SETTINGS>, then press [OK].**
3. **Use [◄–] or [+►] to select <NETWORK SETTINGS>, then press [OK].**
4. **Use [◄–] or [+►] to select <STARTUP TIME SET.>, then press [OK].**
5. **Use [◄–] or [+►] to set the time period required to delay the startup of network communications for the machine, then press [OK].**

   You can enter the value from 0 to 300 (seconds).
6. **Press [Stop] to return to standby mode.**
7. **Restart the machine.**

Settings Using a Web Browser (Remote UI)

NOTE

– Before using the Remote UI, make sure that <USE HTTP> is set to <ON> in <TCP/IP SETTINGS> in <NETWORK SETTINGS> located in the <SYSTEM SETTINGS>, and <REMOTE UI> is set to <ON> in the <SYSTEM SETTINGS> menu. (See “HTTP,” on p. 3-7, and Chapter 4, “Remote UI”.)
– If you are using a connection via a proxy server, use the following settings. (The settings differ depending on the network environment.) When configuring your web browser to use the proxy server, add the IP address of the machine to Exception (the address not using the proxy server).

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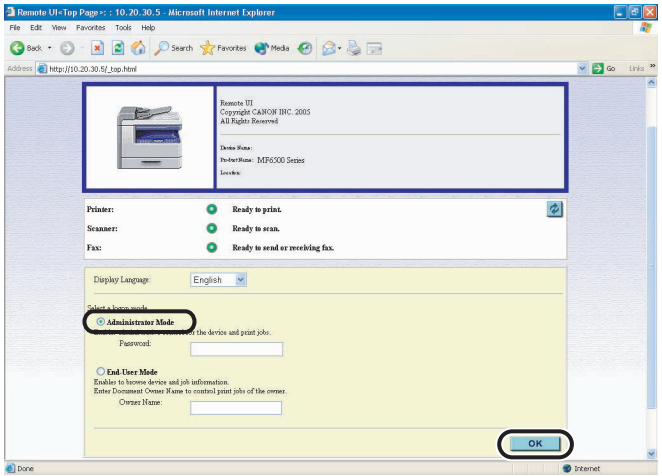
– Set up the web browser to accept cookies.
– If you are starting more than one Remote UI at the same time, only the last setting specified will be valid. It is recommended that you start only one Remote UI.

1. Start the web browser → enter the IP address of the machine in [Address] or [Location] → press [Enter] on the keyboard.

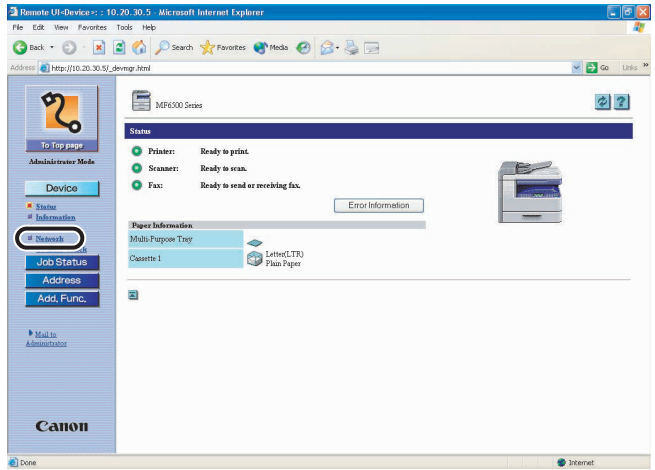
Input example: http://172.20.88.125/

2. Select [Administrator Mode] → click [OK].



If a password has been set for the machine, enter the password, and then click [OK].

3. Under [Device], click [Network].



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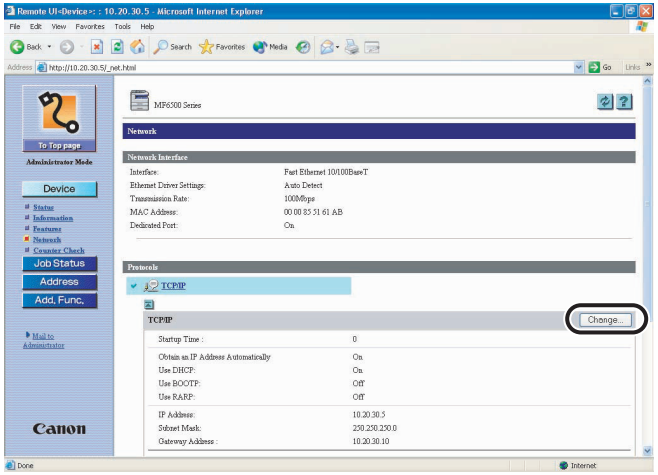
4. Click [Change].



5. Specify the [IP Address], [Subnet Mask], and [Gateway Address] settings.

6. In [Use LPD], specify whether to display the current print setting by using an LPD application.

7. In [Raw Settings], specify whether to display the current print setting by using a Raw application.

8. In [Use IP Address Range Settings], specify whether to restrict access from computers whose IP address are specified in this section.

9. In [RX MAC Address Settings], specify whether to restrict access from computers whose MAC address are specified in this section.

10. Click [OK].

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Setting Up a Computer for Printing/Sending a Fax

● **Connecting to a TCP/IP Network**

All computers that use the machine must have TCP/IP client software installed and must be enabled for TCP/IP network use. For details, see the manuals provided with the operating system.

● **Installing the Printer Driver and Specifying the Machine Destination Setting**

To print from a computer, you must install a printer driver and specify a setting for the machine destination. The machine destination setting differs depending on the print application used for printing. Use the following information as a guide to determine the print application you are using, and then perform the necessary operations.

LPD: This is the print application generally used with TCP/IP.
Raw: This is a print application used with Windows 2000/XP/Server 2003. It can print at higher speeds than LPD.

Machine Connection Method (LPD/Raw)

1. Open the printer properties dialog box.

– For Windows 2000, click [Start] on the Windows task bar → [Settings] → [Printers].
– For Windows XP Professional/Server 2003, click [start] on the Windows task bar → [Printers and Faxes].
– For Windows XP Home Edition, click [start] on the Windows task bar → [Control Panel] → [Printers and Other Hardware] → [Printers and Faxes].

2. Right-click the icon of the printer you installed → select [Properties].

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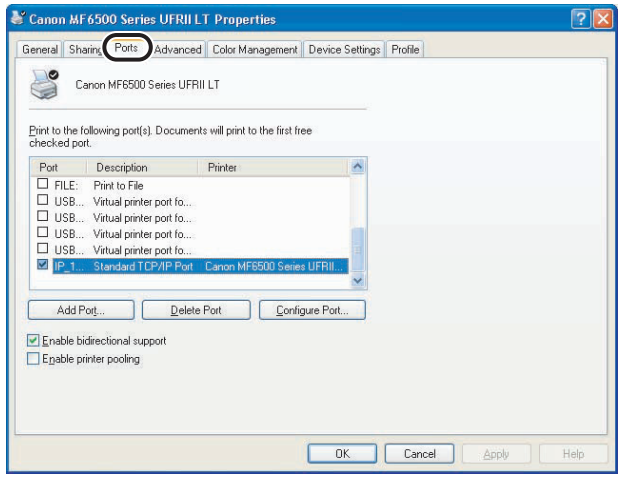
3. Display the [Ports] sheet by clicking the [Ports] tab.



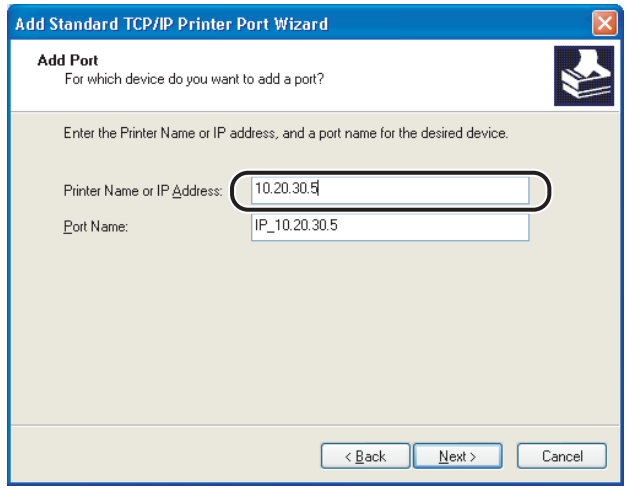
4. Open the [Printer Ports] dialog box by clicking [Add Port].

5. From [Available ports types], select [Standard TCP/IP Port] → click [New Port].

The Add Standard TCP/IP Printer Port Wizard starts.

6. Click [Next].

7. In [Printer Name or IP Address], enter the machine IP address or machine host name → click [Next].



After the computer has confirmed that there is a machine in which the entered IP address is assigned, the [Completing the Add Standard TCP/IP Printer Port Wizard] window appears.

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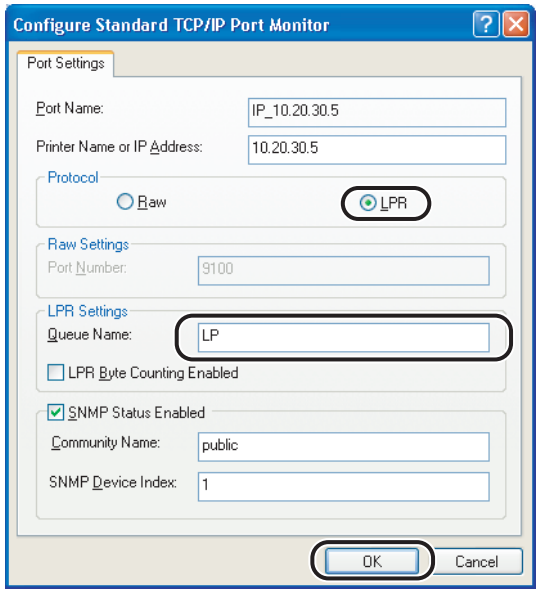
8. Click [Finish].

If the dialog box displays [Additional Port Information Required], follow the instructions on the screen to search again, or click [Standard] → click [Canon Network Printing Device with P9100] from the pull-down list → click [Next].

9. Click [Close] to close the [Printer Ports] dialog box.

If you want to use Raw, skip to step 11.

10. In the printer properties dialog box, click [Configure Port] → Click [LPR] under [Protocol] → enter a print queue in [Queue Name] under [LPR Settings].



NOTE

You can specify a print queue in [Queue Name]. The following three print queues are available:
LP: The machine prints according to its spool settings. Normally select this option.
SPOOL: The machine prints only after spooling a print job on the hard disk, regardless of its spool settings.
DIRECT: The machine prints without spooling a print job on the hard disk, regardless of its spool settings.

11. Click [OK].

12. Click [Close].

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Print Server Settings

If Windows 2000/XP/Server 2003 is on your network, the following procedure enables you to set up a print server for more efficient management of network printers. Once a print server is set up, print jobs can be managed by the print server. Also, by setting up an alternate driver for the print server, printer drivers can be installed in each computer via the network.

1. Open the printer properties dialog box.

- For Windows 2000, click [Start] on the Windows task bar → [Settings] → [Printers].
- For Windows XP Professional/Server 2003, click [start] on the Windows task bar → [Printers and Faxes].
- For Windows XP Home Edition, click [start] on the Windows task bar → [Control Panel] → [Printers and Other Hardware] → [Printers and Faxes].

2. Right-click the icon of the printer you installed → select [Sharing].

3. Select [Share this printer] (Windows 2000: [Shared as]) and enter a share name.

4. If this machine is shared with users running different versions of Windows, click [Additional drivers].

When the alternate driver is installed, additional windows will open for entering the location of the file containing the printer driver. Follow the instructions in these windows.

NOTE

To install the printer driver on another computer, use the [Printer Wizard] window for selecting the printer destination → select [Network printer] → select the shared printer for the computer selected in the print server.

5. Click [OK].

The shared printer settings are complete.

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Machine Management

The machine enables you to use any of the following software to check the status and to specify the settings on your computer.

- **Web browser (Remote UI)**
- **NetSpot Device Installer (Canon utility software included in the User Software CD)**
- **NetSpot Console (via a web browser) (Canon utility software)**

NOTE

The utility software of the NetSpot Console is not included in the User Software CD. To use the NetSpot Console, please download it from the Canon website.

Machine Management Using Web Browser (Remote UI)

You can use Remote UI installed in the machine to manage it on a web browser.
For starting Remote UI, see “Settings Using a Web Browser (Remote UI),” on p. 3-19. For using Remote UI, see “Displaying Device Status and Information,” on p. 4-6.

Machine Management Using NetSpot Device Installer

NetSpot Device Installer is utility software for specifying the initial settings of Canon devices connected to a network. Available on the CD-ROM, NetSpot Device Installer can be accessed directly without installation, enabling network users to quickly and easily specify the initial settings of network devices. For instructions on how to use NetSpot Device Installer, see the online help for NetSpot Device Installer.

Machine Management Using NetSpot Console

NetSpot Console is utility software capable of managing devices connected to a network. This software enables network users to set or view various types of information about network devices using a web browser, such as list or map display of devices, detailed protocol settings, display and notification of device status, and job manipulations.
For instructions on how to use NetSpot Console, see the online help for NetSpot Console.

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4 Remote UI (MF6580 Only)

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System Requirements

The Remote UI has been confirmed to work in the following system environments.

Windows

● **OS**

– Microsoft Windows 98/98SE

– Microsoft Windows Me

– Microsoft Windows NT Workstation 4.0 + Service Pack 3 or later

– Microsoft Windows 2000 Professional

– Microsoft Windows XP

● **Web Browser**

– Microsoft Internet Explorer 5.01 SP1 or later

– Netscape Communicator/Navigator 6.0 or later, except Netscape Communicator 6

Macintosh

● **OS**

– Mac OS 8.6 or later, until Mac OS X Classic

● **Web Browser**

– Microsoft Internet Explorer 5.01 SP1 or later

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Using the Remote UI

The Remote UI software enables you to access and manage the machine connected to a network using a web browser.

- **Check the machine status from a network computer**
- **Set and control the machine from a computer**

Starting the Remote UI

NOTE

Before you start the Remote UI, select <VIEW IP ADDRESS> in <NETWORK SETTINGS> located in the <SYSTEM SETTINGS>, and verify the IP address of the machine. If you do not know the IP address, consult with your network administrator. (See Chapter 3, “Network”.)

1. Start the web browser.

2. Enter the IP address of the machine in [Address] or [Location] → press [Enter] on the keyboard.

The Remote UI screen appears.

3. Enter the password or the owner name.

For Administrator Mode: Enter the password.
For End-User Mode: Enter the owner name.

NOTE

To specify or change password, click [System Settings] under [Add. Func.] → click [Edit] on the right side of the title of System Manager Settings → click [Register Password] → select [Set Password] → enter passwords in [System Manager Password] and in [Confirm] → click [OK]. You can enter a password that discriminates between lowercase and uppercase up to 7 characters. Note that you must logon with Administrator Mode before specifying or changing password.

4. Click [OK].

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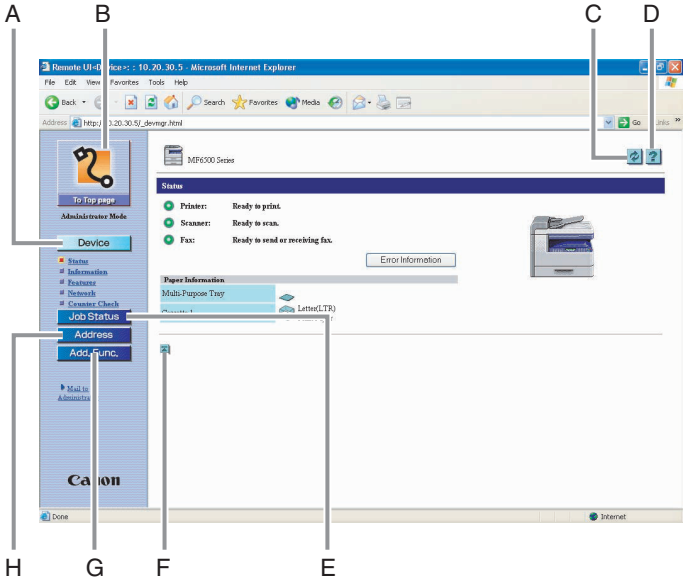

[Device] - [Status] page is displayed when you logon the Remote UI.

A	Device	Displays the current status of the machine, etc.
B	To Top page	Takes you to the Remote UI top page.
C		Updates (refreshes) the currently displayed screen with the latest information.
D		Displays the online help for the Remote UI.
E	Job Status	Displays the current status of print jobs, etc.
F		Takes you back to the top of a current page.
G	Add. Func.	Displays a list of settings for the machine, etc.
H	Address	Displays one-touch or coded speed dialing data (fax numbers, etc.) registered on the machine.
	Back	Takes you back to the previous page.

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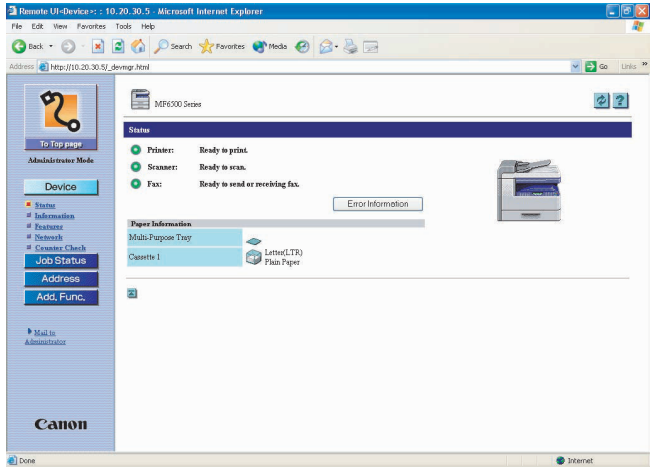
Displaying Device Status and Information

You can view the current status of the machine and also information about the administrator in charge of the machine, the installation location and various machine settings.

1. Click [Device] → select the item you want to display from the menu that appears under [Device].



[Status]	Displays the remaining amount of paper in the various paper sources and any error messages. To check details of errors, click [Error Information].
[Information]	Displays information related to the machine, such as the system manager's information and the location of the machine.
[Features]	Displays the functions that are available with the current system configuration.
[Network]	Displays information about the network interface and any network protocols that are enabled. If you are using Administrator Mode, you can also adjust these settings.
[Counter Check]	Displays the total number of pages that have been output for printing, copying, and received job printing.

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Job Management

The Remote UI enables you to manage print jobs. It also enables you to view the sending and receiving results of fax jobs.

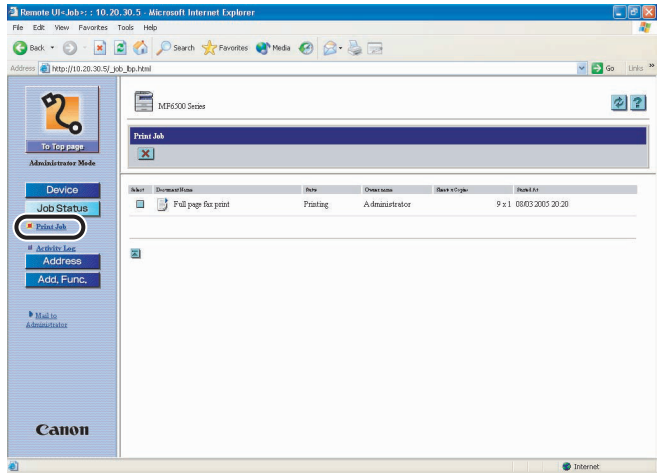
NOTE

If you log in using End-User Mode and [Permit End-user's Job Operation] in [Add.Func.] is set to [OFF], you cannot delete any print jobs. When [Permit End-user's Job Operation] is set to [ON], you can delete print jobs which you have owner privileges.

Managing Print Jobs

You can use the Remote UI to manage print jobs that are being processed by the machine, or are held in the print queue.

1. Click [Job Status] → select [Print Job] from the menu that appears under [Job Status].



A list of print jobs being waiting or processed by the machine appears.

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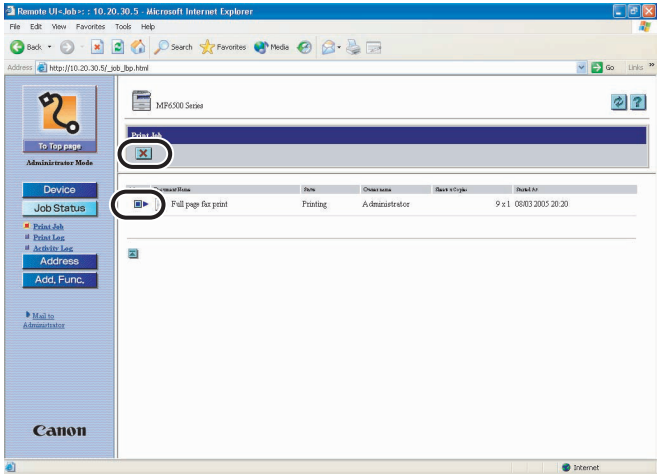
2. To delete a print job, select the [Select] check box next to the desired job → click ✕.



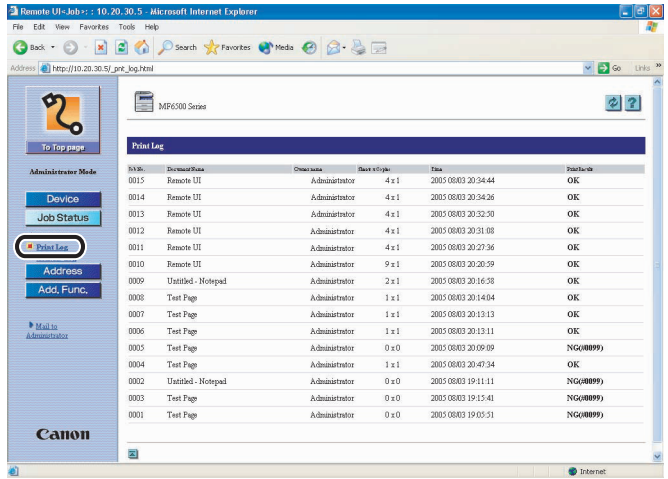
NOTE

You cannot recover the job once it is deleted.

Viewing the Print Log

The Remote UI enables you to view the [Print Log] of print jobs. The [Print Log] shows up to 128 recent print jobs.

1. Click [Job Status] → select [Print Log] from the menu that appears under [Job Status].



The [Print Log] appears displaying information about print jobs that have already been processed by the machine.

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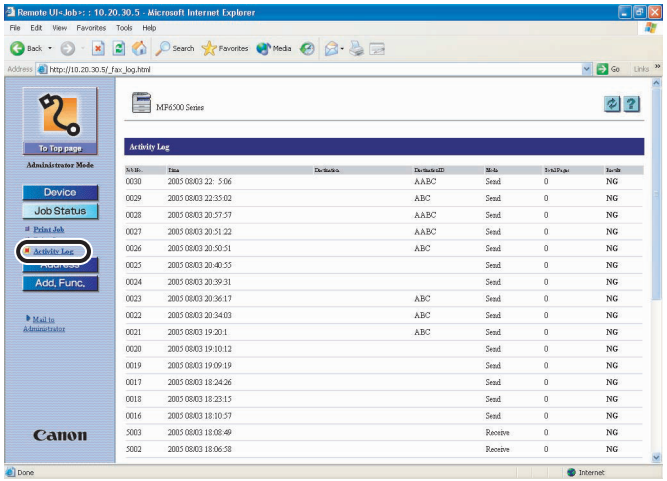
Viewing the Activity Log

The Remote UI enables you to view the [Activity Log] of fax jobs.
The [Activity Log] shows up to 40 recent facsimile transactions.

1. Click [Job Status] → select [Activity Log] from the menu that appears under [Job Status].



The [Activity Log] appears displaying information about fax jobs that have already been processed by the machine.

NOTE

If you set <CHECKING THE LOG> to <OFF> in <SYSTEM SETTINGS>, no activity logs appear in the list.

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Managing the Address Book

The Remote UI enables you to make additions and changes to each item of the Address.

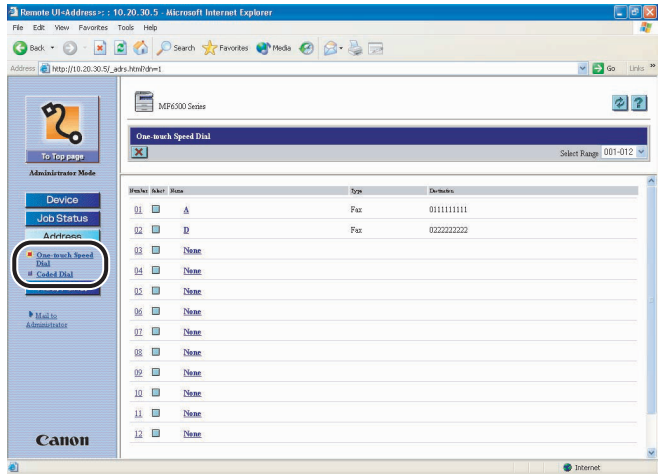
NOTE

You can edit the Address only when you are in the Administrator Mode.

Viewing and Editing One-Touch or Coded Speed Dialing

You can use the Remote UI to view and edit the one-touch or coded speed dialing numbers. You can delete and register addresses, or make changes to the addresses already registered.

1. Click [Address] → select [One-touch Speed Dial] or [Coded Dial] from the menu that appears under [Address].



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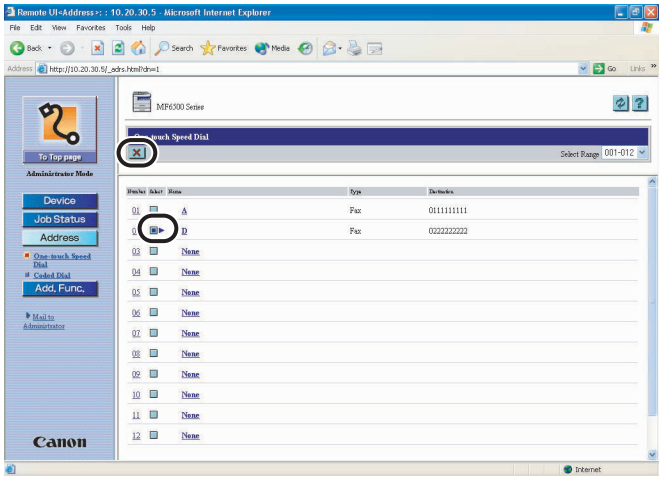
2. To delete a one-touch or coded speed dialing number, select the [Select] check box next to the number to delete → click ✕.

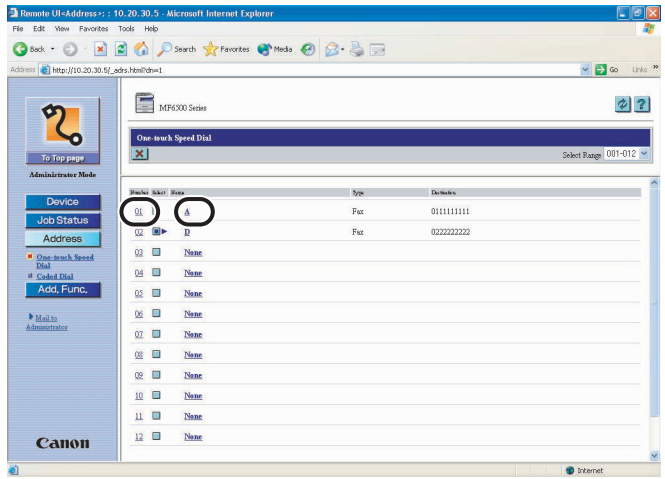


NOTE

You cannot recover the number once it is deleted.

3. To view the information registered for one-touch or coded speed dialing numbers, click the number or the name.

If you want to add an address for [One-touch Speed Dial] or [Coded Dial], click [None] or any number for which [None] is displayed as the name.



The detailed information about the number appears.

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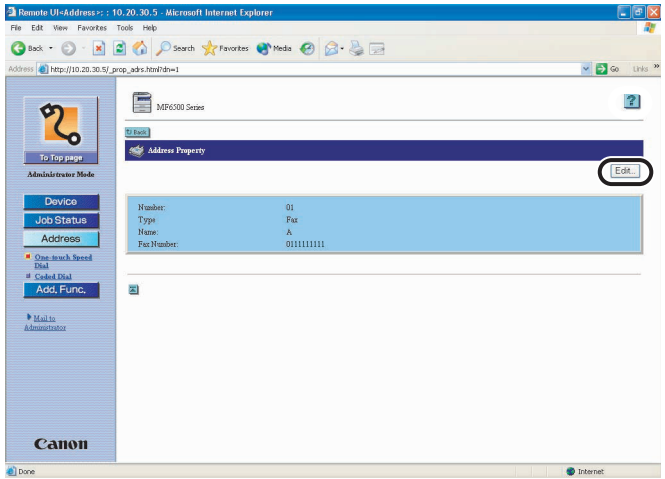
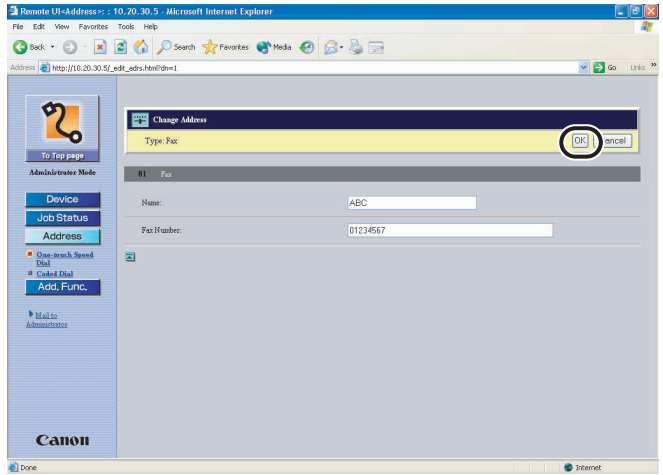
4. **To edit the information, click [Edit].**



5. **To store the values you entered, click [OK].**



To specify group dialing, click any number for which [None] is displayed as the name → select [Group] from [Type] → enter a group name in [Group Name] → click [Address Book].

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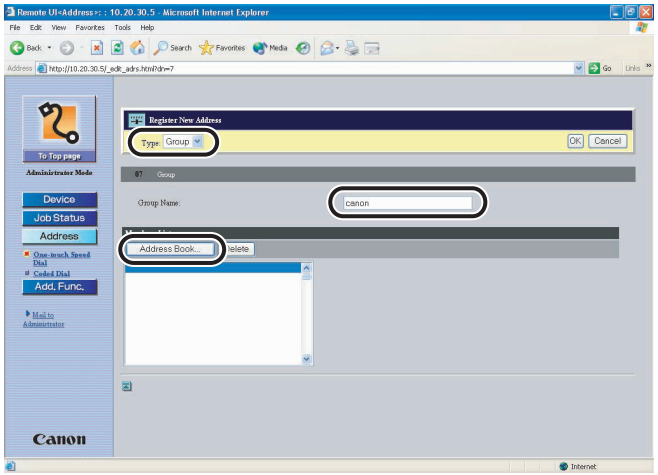
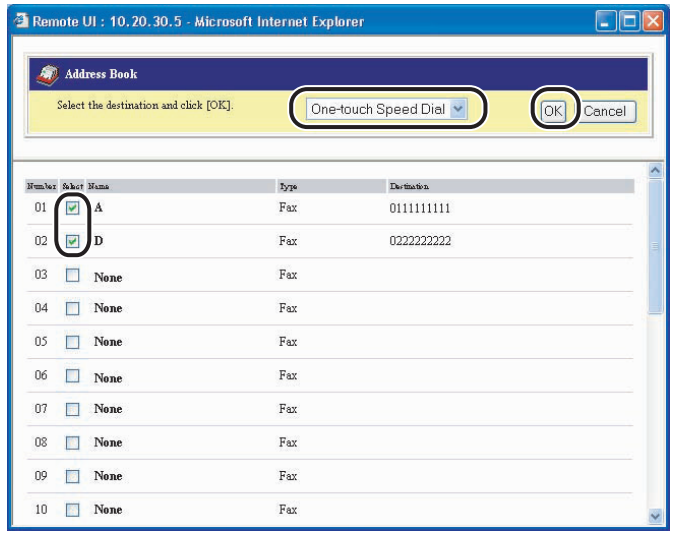


To register all the destinations for the group, select [One-touch Speed Dial] or [Coded Dial] from the drop-down list → select the [Select] check box next to the number to register for the group dialing → click [OK].



6. Make sure that the registered destinations are displayed in the [Members List] → click [OK].

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Customizing System Settings

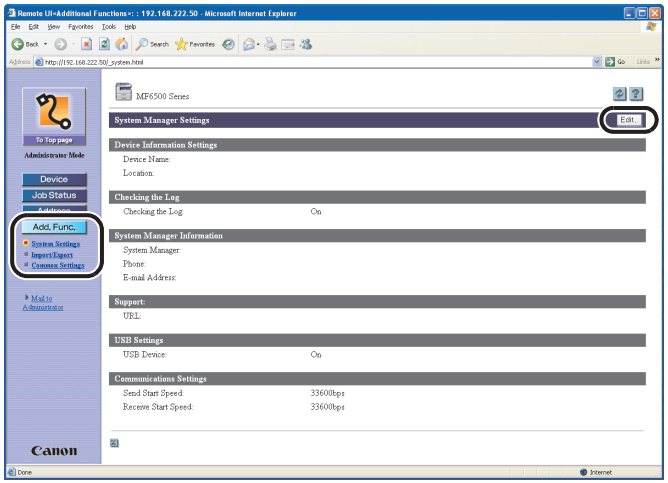
Customizing System Information

The Remote UI enables you to specify the machine's system settings.

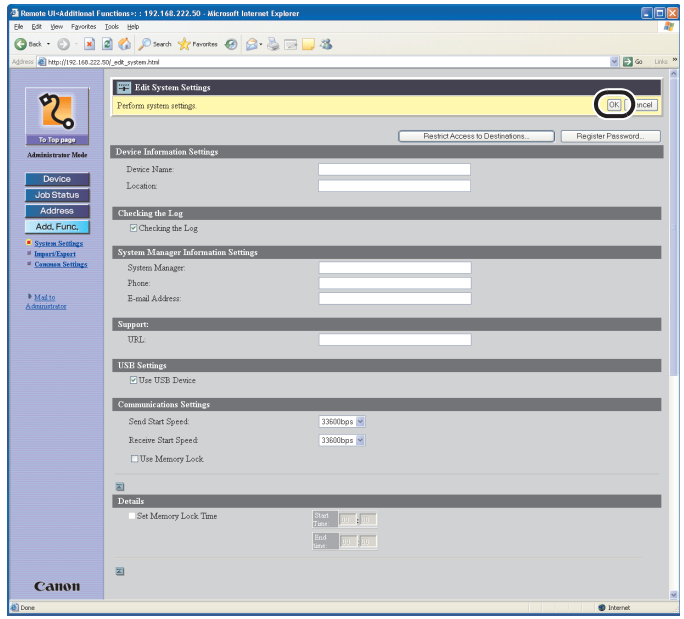
NOTE

You can also access the System Setting from the Operation Panel of the machine. For details, see Chapter 13, "Machine Settings," in Basic Guide.

1. Click [Add.Func.] → select [System Settings] from the menu that appears under [Add.Func.] → click [Edit].



2. Enter the necessary information → click [OK].



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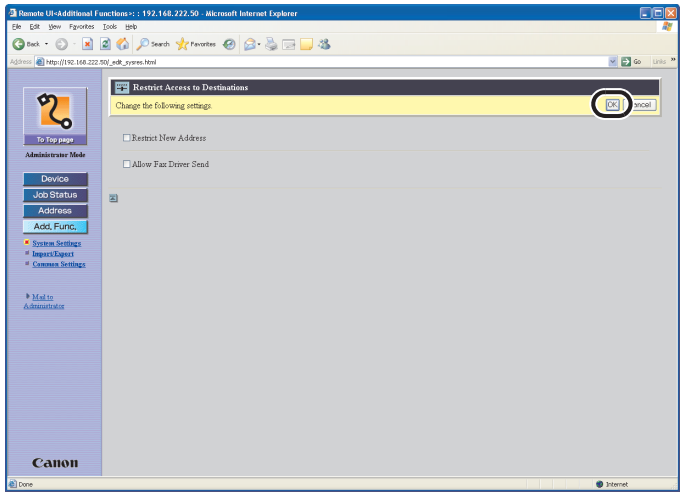
To protect the Restrict New Addresses:

- **Click [Restrict Access to Destinations].**

  The Restrict Access to Destinations screen is displayed.

- **Specify the necessary fields → click [OK].**



[Restrict New Address]

This mode enables you to restrict the sending of documents to addresses which do not exist in the Address Book. If this check box is selected, specifying destinations using the numeric keys or the Recall button, and the registering of new addresses is restricted.

[Allow Fax Driver Send]

If you want to allow the sending of faxes from a computer using the fax driver, select this check box.

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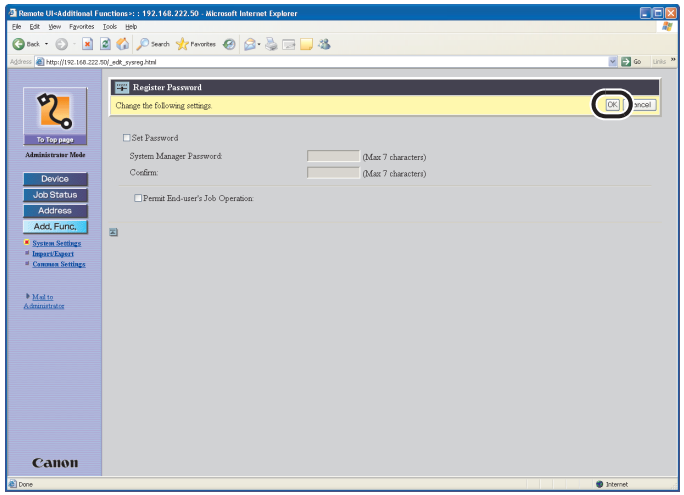
To set the System Manager password:

- **Click [Register Password].**

  The Register Password screen is displayed.

- **Specify the necessary fields → click [OK].**



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Import/Export Function

The Remote UI enables you to save the Address Book and other settings information, such as a file that can be loaded into the machine when needed. This function is useful when you want to use the same settings on another machine, and for backing up. The Import/Export function is intended for data exchange, and is available only through the Remote UI.

CAUTION

The Import/Export operation may take more than a few minutes to complete. Do not turn the machine's main power OFF until the operation is complete. Otherwise, the machine may malfunction.

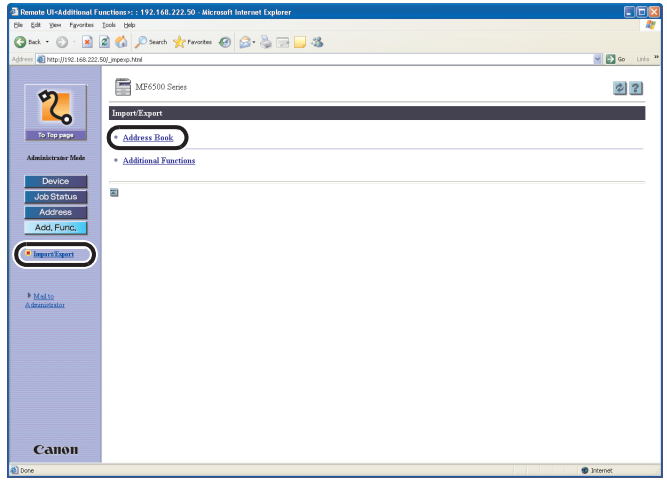
NOTE

– During an Export operation, the screen display does not change until the operation is complete. Do not click [Start Export] while the hourglass or pointer indicates that the operation is still being processed.
– [Import/Export] is displayed only when you are in the Administrator Mode.

Saving the Address Book

You can store the Address Book as a file in your computer.

1. Click [Add.Func.] → select [Import/Export] from the menu that appears under [Add.Func.] → click [Address Book].



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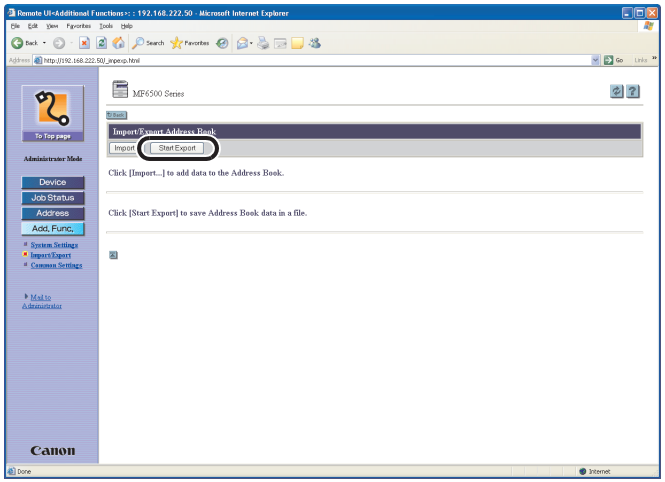
2. **Click [Start Export].**



3. **Follow the instructions on the screen to specify the location where you want to save the file.**

The file is saved in the specified location.

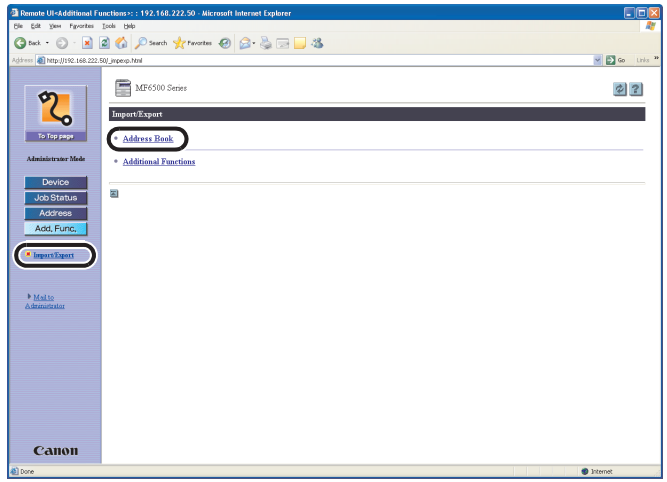
Loading an Address Book

You can load address books into the machine from saved files.

NOTE

- When you register the contents of a new file, the currently registered addresses are overwritten by the new address list.
- Do not load the address book when the machine is set for Delayed Sending.
- You can register up to 123 addresses in the Address Book. Each address is treated as a separate item.
- You cannnot import the settings in <OPTIONAL SETTING> in <ADDRESS BOOK SET.>. (See “Optional Settings for One-Touch/Coded Speed Dialing,” on p. 1-6.)

1. **Click [Add.Func.] → select [Import/Export] from the menu that appears under [Add.Func.] → click [Address Book].**



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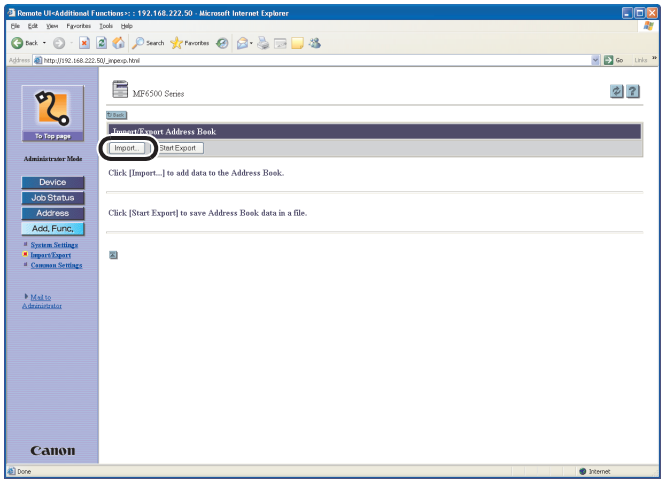
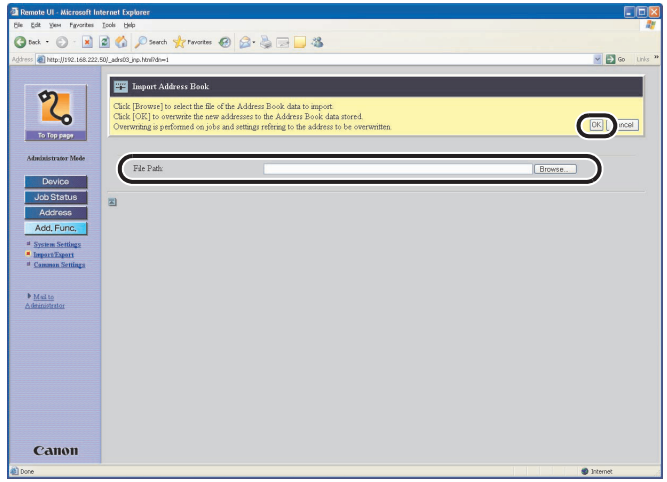
2. **Click [Import].**



3. **Click [Browse] → select the file to import → click [OK].**



NOTE

Do not import any files while the machine is executing other jobs.

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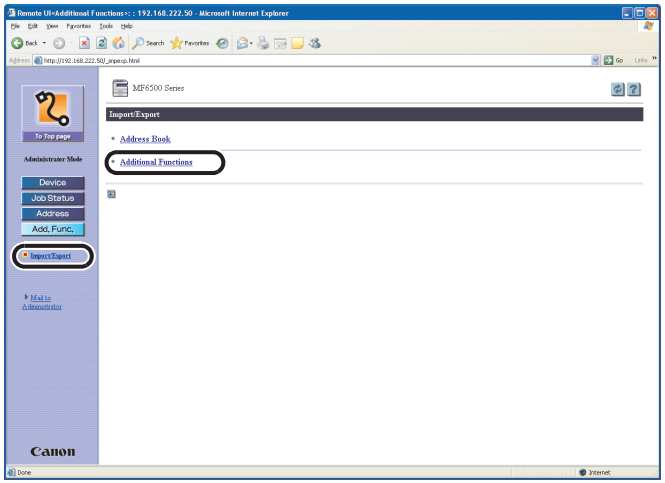
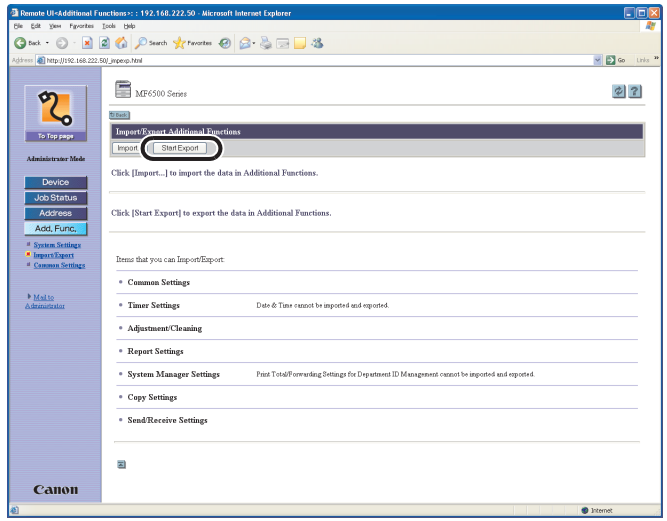
Saving Additional Functions Settings in Files (Export)

You can store Additional Functions settings as a file in your computer.

1. Click [Add.Func.] → select [Import/Export] from the menu that appears under [Add.Func.] → click [Additional Functions].



2. Click [Start Export].



3. Follow the instructions on the screen to specify the location where you want to save the file.

The file is saved in the specified location.

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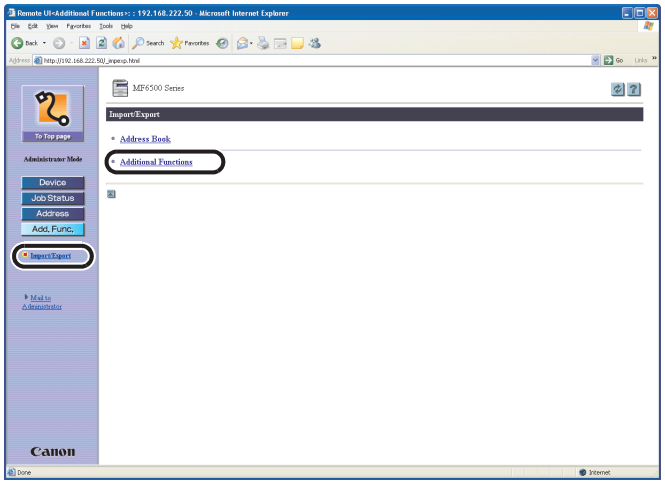
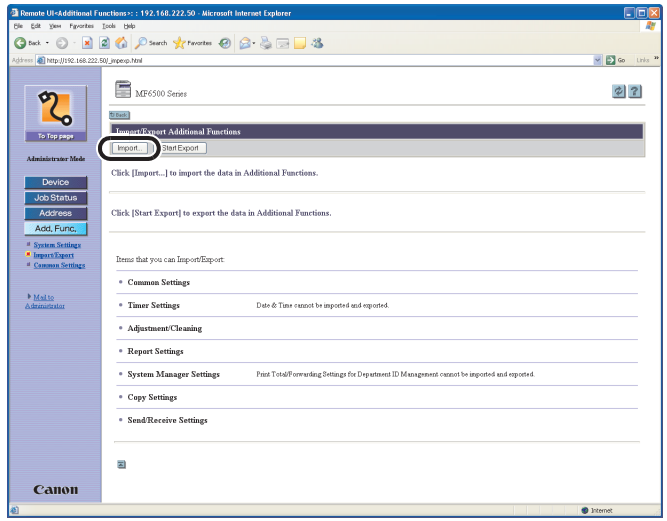
Loading Additional Functions Settings Files (Overwrite/Import)

You can load Additional Functions settings into the machine from saved files.

1. Click [Add.Func.] → select [Import/Export] from the menu that appears under [Add.Func.] → click [Additional Functions].



2. Click [Import].



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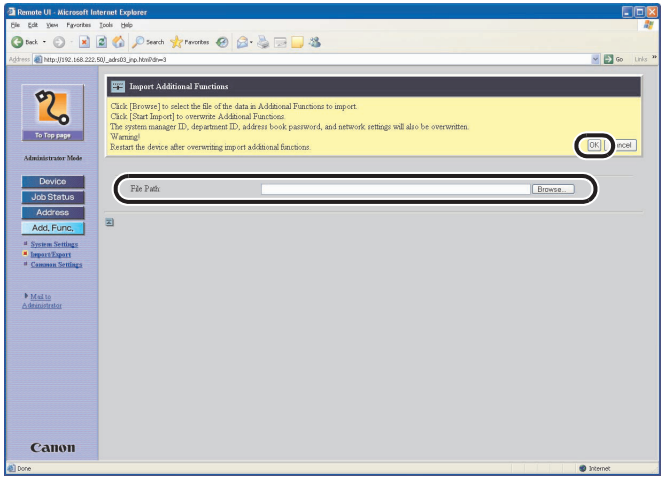
3. Click [Browse] → select the file to import → click [OK].



NOTE

- When Additional Functions settings are imported, Network Settings are automatically overwritten.
- The machine must be restarted to enable the imported Additional Functions settings. After importing, turn OFF the main power switch of the machine, wait at least 10 seconds, and turn the power back ON.
- After importing Additional Functions settings, the Remote UI cannot be used to perform other operations until the machine is restarted.
- Do not import any files while the machine is executing other jobs.

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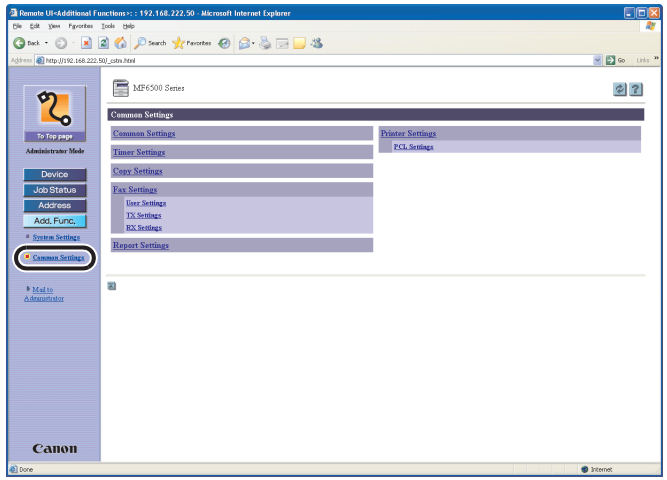
Device Custom Settings

The machine's custom settings can be edited with the Remote UI.
The following procedure shows how to customize the machine's settings from the Remote UI.

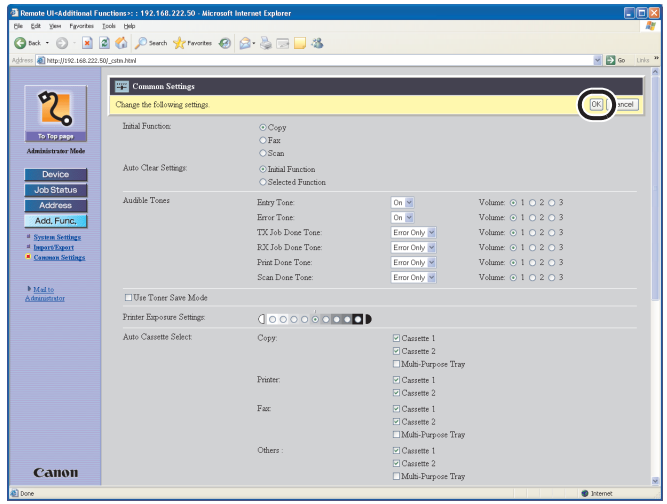
NOTE

You can also access these setting menus from the Operation Panel of the machine. For details, see Chapter 13, “Machine Settings,” in the Basic Guide.

1. Click [Add.Func.] → select [Common Settings] from the menu that appears under [Add.Func.] → click the type of custom setting that you want to specify.



2. Specify all the necessary fields → click [OK].



The above screen shot shows [Common Settings].

NOTE

If you are changing the Network Settings, the machine must be restarted to enable the settings. Turn OFF the main power switch of the machine, wait at least 10 seconds, and turn the power back ON.

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Checking Job and Machine Status

System monitor enables you to view the transmission and reception results, monitor the status of the copy, fax, print jobs currently being processed.

Checking Transmission/Reception Results (MF6550/MF6560/MF6580 Only)

1. Press [System Monitor].
2. Use [◄–] or [+►] to select <TX/RX LOG>, then press [OK].
3. Use [◄–] or [+►] to view the required transmission/reception result.
4. Press [Stop] to return to standby mode.

NOTE
If you set <CHECKING THE LOG> to <OFF> in <SYSTEM SETTINGS>, transmission/reception result does not appear in the LCD.

Checking and Deleting Transmitting/Received Documents Stored in Memory (MF6550/MF6560/MF6580 Only)

1. Press [System Monitor].
2. Use [◄–] or [+►] to select <RX/TX STATUS>, then press [OK].
3. Use [◄–] or [+►] to select the desired document, then press [OK].

   If you select a document with the message <TX STNDBY>, <TX TRM...>, or <RX TRM...>, skip to step 6.
4. Use [◄–] or [+►] to select <CANCEL> or <TRANSFER>, then press [OK].

   <TRANSFER>: To send the document.
   <CANCEL>: To delete the document, skip to step 6.

NOTE
You can select <TRANSFER> only for the received document in memory.

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5. **Use the numeric keys to enter a recipient's number, then press [OK].**

   The machine starts to send the selected document.

6. **Use [◄–] to select <YES>, then press [OK].**

7. **Press [Stop] to return to standby mode.**

Checking and Deleting Copy Jobs

1. **Press [System Monitor].**

2. **Confirm that <COPY STATUS> is displayed, then press [OK].**

3. **Use [◄–] or [+►] to scroll through the job list.**

   When you delete the copy job, press [OK], then press [◄–] to select <YES>.

4. **Press [Stop] to return to standby mode.**

Checking and Deleting Print Jobs

1. **Press [System Monitor].**

2. **Use [◄–] or [+►] to select <PRINT STATUS>, then press [OK].**

3. **Use [◄–] or [+►] to scroll through the job list.**

   When you delete the print job, press [OK], then press [◄–] to select <YES>.

4. **Press [Stop] to return to standby mode.**

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6 Reports and Lists

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Summary of Reports and Lists

The machine can generate the following reports and lists.

Report/List	Description
1-TOUCH LIST*	Lists the recipient addresses registered to all the one-touch speed dialing keys.
1-TOUCH LIST 2*	Lists the detailed data of [1-TOUCH LIST].
CODED DIAL LIST*	Lists the recipient addresses registered to all the coded speed dialing codes.
CODED DIAL LIST 2*	Lists the detailed data of [CODED DIAL LIST].
GROUP DIAL LIST*	Lists groups registered for group dialing.
USER'S DATA LIST	Lists all the current settings and registered sender information.
ACTIVITY REPORT*	Shows the last 40 transactions performed by the machine.
TX REPORT*	Shows the transmission result. Can be set to print automatically.
RX REPORT*	Shows the reception result. Can be set to print automatically.

* MF6550/MF6560/MF6580 Only

NOTE

– To print USER'S DATA LIST, select <USER DATA LIST> in <LIST PRINT> located in <REPORT SETTINGS>. To manually print ACTIVITY REPORT, select <ACTIVITY REPORT> instead of <USER DATA LIST> in the same procedure.
– To print 1-TOUCH LIST, CODED DIAL LIST, and GROUP DIAL LIST, select the appropriate option under <SPEED DIAL LIST> in <LIST PRINT> located in <REPORT SETTINGS>.
– To print 1-TOUCH LIST 2 and CODED DIAL LIST 2, select the appropriate option under <ADD BOOK DETAILS> in <LIST PRINT> located in <REPORT SETTINGS>.

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Printing Reports Automatically (MF6550/MF6560/MF6580 Only)

TX REPORT, RX REPORT, and ACTIVITY REPORT can be set to print automatically.

TX REPORT

1. Press [Additional Functions].
2. Use [◄–] or [+►] to select <REPORT SETTINGS>, then press [OK].
3. Confirm that <SETTINGS> is displayed, then press [OK].
4. Confirm that <TX REPORT> is displayed, then press [OK].
5. Use [◄–] or [+►] to select the setting you want, then press [OK].

   <PRINT ERROR ONLY>: Prints a report only when a transmission error occurs.
   <OUTPUT YES>: Prints a report every time you send a document.
   <OUTPUT NO>: Does not print a report. Skip to step 7.
6. Confirm that <REPORT WITH TX IMAGE> is displayed, use [◄–] or [+►] to select <ON> or <OFF>, then press [OK].

   <OFF>: Does not print the first page.
   <ON>: Prints the first page.
7. Press [Stop] to return to standby mode.

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Report Items

The following items are displayed in the Transmission Report:

- **Transaction description**
- **TX/RX NO: Transaction number**
- **RECIPIENT ADDRESS: Recipient's fax/telephone number**
- **DESTINATION ID: Registered name for speed dial**
- **ST. TIME: Transmission time**
- **TIME USE: Transmission duration**
- **PAGES SENT: Number of pages sent**
- **RESULT: Result of transaction**
  - OK: Transmission successful
  - NG: Transmission failed
  - STOP: Transmission manually canceled before completion
  - BUSY/NO SIGNAL: The line is busy or the recipient does not answer your call
- **Error code: For descriptions of error codes, see Chapter 12, "Troubleshooting," in the Basic Guide.**

RX REPORT

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <REPORT SETTINGS>, then press [OK].**
3. **Confirm that <SETTINGS> is displayed, then press [OK].**
4. **Use [◄–] or [+►] to select <RX REPORT>, then press [OK].**
5. **Use [◄–] or [+►] to select the setting you want, then press [OK].**

   <PRINT ERROR ONLY>: Prints a report only when a reception error occurs.
   <OUTPUT YES>: Prints a report every time you receive a document.
   <OUTPUT NO>: Does not print a report.
6. **Press [Stop] to return to standby mode.**

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Report Items

The following items are displayed in the Reception Report:

- **Transaction description**
- **TX/RX NO: Transaction number**
- **RECIPIENT ADDRESS: Recipient's fax/telephone number**
- **DESTINATION ID: Registered name for speed dial**
- **ST. TIME: Transmission time**
- **TIME USE: Transmission duration**
- **PGS.: Number of pages received**
- **RESULT: Result of transaction**
  - OK: Reception successful
  - NG: Reception failed
  - STOP: Reception manually canceled before completion
- **Error code: For descriptions of error codes, see Chapter 12, "Troubleshooting," in the Basic Guide.**

■ ACTIVITY REPORT

1. **Press [Additional Functions].**
2. **Use [◄–] or [+►] to select <REPORT SETTINGS>, then press [OK].**
3. **Confirm that <SETTINGS> is displayed, then press [OK].**
4. **Use [◄–] or [+►] to select <ACTIVITY REPORT>, then press [OK].**
5. **Confirm that <AUTO PRINT> is displayed, then press [OK].**
6. **Use [◄–] or [+►] to select the setting you want, then press [OK].**

   <OUTPUT YES>: Prints a report after every 40 transactions.
   <OUTPUT NO>: Does not print a report. Skip to step 9.

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7. Confirm that <TX/RX SEPARATE> is displayed, then press [OK].

8. Use [◄–] or [+►] to select the setting you want, then press [OK].

<OFF>: Prints a report with the transmission and reception results listed chronologically.
<ON>: Prints a report with the transmission and reception results separated in a report.

9. Press [Stop] to return to standby mode.

Report Items

The following items are displayed in the Activity Report:

- **ST. TIME: Transmission time**
- **DESTINATION TEL/ID: Recipient's fax/telephone number/ Registered name for speed dial**
- **NO: Transaction number**
- **MODE: Transaction, Error correction mode**
- **PGS.: Number of pages sent**
- **RESULT: Result of transaction, transaction duration**

– OK: Transaction successful

– NG: Transaction failed

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7 Troubleshooting

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General Problems

The machine has no power.

Q **Is the power cord plugged in securely?**

A Check that the power cord is securely plugged into the machine and into the wall outlet. If the machine is plugged into a power strip, make sure the power strip is plugged in and turned on.

Q **Is the power cord supplying power?**

A Use a different power cord, or test the cord for continuity using a voltmeter.

Q **Is the main power switch turned on?**

A Turn on the main power switch.

The Error indicator comes on.

Q **Does the machine feed paper correctly, or is there paper in the cassette or multi-purpose tray?**

A Clear the paper jam, or load paper in the cassette or multi-purpose tray. (For instructions on clearing paper jam, see Chapter 12, “Clearing Jams,” in the Basic Guide. For instructions on loading paper, see “Set Up the Machine,” in the Starter Guide.)

A If the machine has no paper jam, or paper is loaded in the cassette or multi-purpose tray, turn off the machine and wait for more than 10 seconds, then turn it on again. If the problem is fixed, the Alarm indicator will turn off, and the LCD will return to standby mode. If the Alarm indicator remains flash, unplug the machine, and contact Canon Authorized Service Facilities or the Canon Customer Care Center.

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Nothing appears in the LCD.

Q **Is the power cord plugged in securely?**

A Unplug the machine and wait for 5 seconds, then plug it back in. If the LCD still remains blank, contact Canon Customer Care Center.

Q **Is the main power switch turned on?**

A Turn on the main power switch.

Q **Is the machine in Sleep mode?**

A Press [ON/OFF] on the operation panel to cancel Sleep mode.

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Paper Feeding Problems

Paper does not feed properly.

Q **Is the paper loaded correctly?**

A Make sure the paper is correctly loaded. (See “Set Up the Machine,” in the Starter Guide.)

Q **Does the machine contain too many sheets?**

A Make sure you load the correct quantity. (See Chapter 3, “Print Media,” in the Basic Guide.)

Multiple sheets feed together into the machine.

Q **Is the paper loaded correctly?**

A Make sure the paper is correctly loaded. (See “Set Up the Machine,” in the Starter Guide.)

Q **Does the machine contain too many sheets?**

A Make sure you load the correct quantity. (See Chapter 3, “Print Media,” in the Basic Guide.)

Q **Are different types of paper loaded in the machine?**

A Load only one type of paper.

A Make sure you load paper that meets the requirements for use. (See Chapter 3, “Print Media,” in the Basic Guide.)

A Let the paper run out before refilling the machine. Avoid mixing new stock with paper already loaded.

Repeated paper jams occur.

Q **Is the correct type of paper loaded in the machine?**

A Make sure you load paper that meets the requirements for use. (See Chapter 3, “Print Media,” in the Basic Guide.)

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Faxing Problems (MF6550/MF6560/MF6580 Only)

Sending Problems

Cannot send a fax.

Q **Is the machine overheated?**

A Unplug the machine and let it cool for about 5 minutes. Then plug in the machine and try sending again.

Q **Did you just turn on the machine?**

A Wait until the machine is ready.

Q **Is the machine set for the correct telephone line type?**

A Make sure the machine is set for the correct telephone line type. (See “Set the Machine for Sending Faxes,” in the Starter Guide.)

Q **Is your machine in fax mode?**

A Press [FAX] to show the fax standby display.

Q **Is the document loaded correctly?**

A Make sure the document is correctly loaded. (See Chapter 2, “Document Handling,” in the Basic Guide.)

A Make sure the left cover is fully closed.

Q **Is the one-touch speed dialing key or coded speed dialing code you entered registered correctly?**

A Check that the speed dialing settings are registered correctly. (See Chapter 4, “Sending Faxes,” in the Basic Guide.)

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Q **Did you dial the correct number?**

A Check that you have the correct number.

Q **Is the machine in Sleep mode?**

A The machine does not scan documents if it is in Sleep mode. To take the machine out of Sleep mode, press [ON/OFF] on the operation panel.

Q **Is the recipient's machine out of paper?**

A Ask the recipient to make sure paper is loaded in the machine.

Q **Are there other documents being sent from memory?**

A Allow time for the documents to finish sending.

Q **Has an error occurred during transmission?**

A Check the LCD for an error message. (See Chapter 12, "Troubleshooting," in the Basic Guide.)

A Print an Activity Report and check for an error. (See "ACTIVITY REPORT," on p. 6-5.)

Q **Is the telephone cable connected properly?**

A Make sure the cable is connected properly. (See "Set Up the Machine," in the Starter Guide.)

Q **Is the telephone line working properly?**

A Make sure there is a dial tone when you press [Hook] or when you lift the handset of any external telephone connected to the machine. If there is no dial tone, contact your local telephone company.

Q **Is the recipient's machine a G3 fax machine?**

A Make sure the recipient's machine is compatible with your machine.

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Q **Is BUSY/NO SIGNAL shown on the ERROR TX REPORT?**

A The fax number you dialed is busy. Try sending the document later.

A The recipient's machine is not working. Ask the recipient to check the machine.

Q **Did the recipient's machine answer within 35 seconds (after all automatic redialing attempts)?**

A Ask the recipient to check the machine. For an overseas call, add pauses to the registered number. (See "Dialing an Overseas Number (With Pauses)," on p. 1-6.)

Q **Is the Processing/Data indicator lit?**

A The external phone is busy. Please wait until the external phone becomes free.

Memory fills up immediately when you try to send.

Q **Are you sending with the resolution set to <SUPER FINE> or <ULTRA FINE>?**

A If your document does not contain fine text or photographs, set the resolution to <STANDARD>.

A If your document contains fine text or photographs, send it directly rather than using a memory transmission.

Q **Is a document stored in memory, leaving little memory available?**

A Print, send, or delete any documents stored in memory.

Faxes sent from the machine are spotted or dirty.

Q **Is the recipient's machine working properly?**

A Check the machine by making a copy. If the copy is clear, the problem may be in the recipient's machine. If the copy is spotted or dirty, clean the scanner components. (See Chapter 11, "Maintenance," in the Basic Guide.)

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Q	**Is the document loaded correctly?**
A	Make sure the document is correctly loaded. (See Chapter 2, “Document Handling,” in the Basic Guide.)

The documents you sent are too light.

Q	**Is the density set to the <–LT> side?**
A	Set the density to the <DK+> side.
Q	**Are the scanning components of the machine clean?**
A	Make sure the scanning components are clean.

Sending of documents is too slow.

Q	**Is the resolution set to <FINE>, <SUPER FINE>, or <ULTRA FINE>?**
A	Setting the resolution to <STANDARD> reduces the sending time.
Q	**Is Error Correction Mode (ECM) set to <ON>?**
A	Because ECM corrects errors during a transmission, any problems on the line can mean that the transmission will take extra time. Set ECM to <OFF>.

Cannot send using Error Correction Mode (ECM).

Q	**Does the recipient’s machine support ECM?**
A	If the recipient’s machine does not support ECM, the document is sent in normal mode without error checking.

Errors occur frequently while sending.

Q	**Are the telephone lines in poor condition, or do you have a bad connection?**
A	Check if there is a device nearby that interferes with signal transmission (e.g., microwave oven).
A	Lower the transmission speed. (See Chapter 13, “Machine Settings,” in the Basic Guide.)

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Receiving Problems

Cannot receive a fax automatically.

Q **Is the machine set to receive automatically?**

A For the machine to receive faxes automatically, receive mode must be set to <FaxTel>, <FaxOnly>, or <AnsMode>. If you have set <AnsMode>, confirm that an answering machine is connected to the machine and that it is turned on with an outgoing message properly recorded. (See "Setting Receive Mode," on p. 1-8.)

Q **Is a document stored in memory, leaving little or no memory available?**

A Print, send, or delete any documents stored in memory.

Q **Has an error occurred during reception?**

A Check the LCD for an error message. (See Chapter 12, "Troubleshooting," in the Basic Guide.)

A Print an Activity Report and check for an error. (See "ACTIVITY REPORT," on p. 6-5.)

Q **Is paper loaded in the machine?**

A Make sure paper is loaded in the machine. (See "Set Up the Machine," in the Starter Guide.)

Q **Is the telephone cable connected properly?**

A Make sure the cable is connected properly. (See "Set Up the Machine," in the Starter Guide.)

No automatic switching between telephone and fax calls.

Q **Is the machine set to switch automatically between telephone and fax calls?**

A For the machine to switch between fax and telephone calls automatically, the receive mode must be set to <FaxTel>, <AnsMode>, or <DRPD>. If you have set <AnsMode>, confirm that an answering machine is connected to the machine and that it is turned on with an outgoing message properly recorded. (See "Setting Receive Mode," on p. 1-8.)

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Q **Is a document stored in memory, leaving little or no memory available?**

A Print, send, or delete any documents stored in memory.

Q **Has an error occurred during reception?**

A Check the LCD for an error message. (See Chapter 12, “Troubleshooting,” in the Basic Guide.)

A Print an Activity Report and check for an error. (See “ACTIVITY REPORT,” on p. 6-5.)

Q **Is paper loaded in the machine?**

A Make sure paper is loaded in the machine. (See “Set Up the Machine,” in the Starter Guide.)

Q **Can the sender’s machine send the CNG signal, which tells your machine that the incoming call is a fax call?**

A Some machines cannot send this signal. In such cases, receive the fax manually.

Cannot receive a document manually.

Q **Is the machine set to receive manually?**

A For the machine to receive faxes manually, receive mode must be set to <Manual>. (See “Setting Receive Mode,” on p. 1-8.)

A If you set <MANUAL/AUTO> to <ON> in <RX SETTINGS> located in <FAX SETTINGS>, the machine will receive faxes automatically even when the receive mode is set to <Manual>. (See Chapter 13, “Machine Settings,” in the Basic Guide.)

Q **Have you disconnected the call by pressing [Start] or dialing the remote reception ID after hanging up?**

A Always press [Start] or dial the remote reception ID before hanging up. Otherwise you will disconnect the call.

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Print quality is poor.

Q **Is the toner low or unevenly distributed?**

A Redistribute the toner inside the toner cartridge. If the problem persists, replace the toner cartridge. (See Chapter 11, “Maintenance,” in the Basic Guide.)

Q **Is the correct type of paper loaded in the machine?**

A Make sure you load paper that meets the requirements for use. (See Chapter 3, “Print Media,” in the Basic Guide.)

Q **Is the sender’s machine functioning properly?**

A Ask the sender to check that the scanning components of the machine are clean.

Q **Is the machine in toner saver mode?**

A Set <TONER SAVER MODE> to <OFF> in <COMMON SETTINGS>. (See Chapter 13, “Machine Settings,” in the Basic Guide.)

Faxes do not print.

Q **Have you removed the plastic seal from the toner cartridge?**

A Make sure you remove the seal from the cartridge. (See “Set Up the Machine,” in the Starter Guide.)

Q **Is the toner cartridge installed properly?**

A Make sure the toner cartridge is installed properly. (See “Set Up the Machine,” in the Starter Guide.)

Q **Is the cartridge out of toner?**

A Replace the toner cartridge. (See Chapter 11, “Maintenance,” in the Basic Guide.)

A Select <KEEP PRINTING> for <CONT. PRINTING> in <PRINTER SETTINGS> located in <FAX SETTINGS>. With this setting, the machine will not store documents in the memory even if the toner has run out. (See Chapter 13, “Machine Settings,” in the Basic Guide.)

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Q **Is the correct size of paper loaded in the machine?**

A Make sure you load paper that meets the requirements for use. (See Chapter 3, “Print Media,” in the Basic Guide.)

A Change <REG. PAPER SIZE> in <COMMON SETTINGS>. (See Chapter 13, “Machine Settings,” in the Basic Guide.)

Received faxes print blotched or unevenly.

Q **Are the telephone lines in poor condition, or do you have a bad connection?**

A Error Correction Mode (ECM) should eliminate such problems. However, if the telephone lines are in poor condition, you may have to try again.

Q **Is the sender’s machine functioning properly?**

A Ask the sender to check that the scanning components of the machine are clean.

Q **Is the toner low or unevenly distributed?**

A Redistribute the toner inside the toner cartridge. If the problem persists, replace the toner cartridge. (See Chapter 11, “Maintenance,” in the Basic Guide.)

Cannot receive using Error Correction Mode (ECM).

Q **Does the sender’s machine support ECM?**

A If the sender’s machine does not support ECM, the document is received in normal mode without error checking.

Receiving of documents is too slow.

Q **Is ECM (Error Correction Mode) set to <ON>?**

A Because ECM corrects errors during a transmission, any problems on the line can mean that the transmission will take extra time. Set ECM to <OFF>.

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You cannot get documents from information services.

Q **Is your machine set to the tone dialing type of the telephone line?**

A Press [Tone] to set the tone dialing.

Q **Were there any instructions from the sender, such as to set to receive?**

A Just before receiving, press [Start].

Errors occur frequently while receiving.

Q **Are the telephone lines in poor condition, or do you have a bad connection?**

A Check if there is a device nearby that interferes with signal reception (e.g., microwave oven).

A Lower the reception speed. (See Chapter 13, “Machine Settings,” in the Basic Guide.)

Q **Is the sender’s machine functioning properly?**

A Ask the sender to check that the machine is functioning properly.

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Copying Problems

Cannot make copies.

Q **Have you removed the plastic seal from the toner cartridge?**

A Make sure you remove the seal from the cartridge. (See “Set Up the Machine,” in the Starter Guide.)

Q **Is the toner cartridge installed properly?**

A Make sure the toner cartridge is installed properly. (See “Set Up the Machine,” in the Starter Guide.)

A Make sure the left cover is fully closed.

Q **Is the document loaded correctly?**

A Make sure the document is correctly loaded. (See Chapter 2, “Document Handling,” in the Basic Guide.)

Q **Does the document meet the requirements for the machine?**

A Make sure you load documents that meet the requirements for use. (See Chapter 2, “Document Handling,” in the Basic Guide.)

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Printing Problems

Nothing prints.

Q **Have you removed the plastic seal from the toner cartridge?**

A Make sure you remove the seal from the cartridge. (See “Set Up the Machine,” in the Starter Guide.)

Q **Is the cartridge out of toner?**

A Replace the toner cartridge. (See Chapter 11, “Maintenance,” in the Basic Guide.)

Printout is skewed.

Q **Is the paper loaded correctly?**

A Make sure the paper is correctly loaded in the machine. (See “Set Up the Machine,” in the Starter Guide.)

A Make sure the paper delivery slot is free of obstructions.

Paper jams occur.

Q **Is the correct type of paper loaded in the machine?**

A Make sure you load paper that meets the requirements for use. (See Chapter 3, “Print Media,” in the Basic Guide.)

Printout is not clear.

Q **Is the correct type of paper loaded in the machine?**

A Make sure you load paper that meets the requirements for use. (See Chapter 3, “Print Media,” in the Basic Guide.)

Q **Are you printing on the wrong side of the paper?**

A Some papers have a “right” side for printing. If the print quality is not as clear as you think it should be, try printing on the other side of the paper.

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Printout has vertical white streaks.

Q **Is toner low or unevenly distributed?**

A Redistribute the toner inside the cartridge. If the problem persists, replace the cartridge. (See Chapter 11, “Maintenance,” in the Basic Guide.)

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Telephone Problems (MF6550/MF6560/MF6580 Only)

Cannot dial.

Q **Is the telephone cable connected properly?**

A Make sure the cable is connected properly. (See "Set Up the Machine," in the Starter Guide.)

Q **Is the power cord plugged in securely?**

A Check that the power cord is securely plugged into the machine and into the wall outlet. If the machine is plugged into a power strip, make sure the power strip is plugged in and turned on.

Q **Is the main power switch turned on?**

A Turn on the main power switch.

Q **Is the machine set for the correct telephone line type?**

A Make sure the machine is set for the correct telephone line type. (See "Set the Machine for Sending Faxes," in the Starter Guide.)

Telephone disconnects while you are talking.

Q **Is the telephone cable connected properly?**

A Make sure the cable is connected properly. (See "Set Up the Machine," in the Starter Guide.)

Q **Is the telephone cable defective?**

A Use another cord.

Calls do not connect, or the wrong number is dialed.

Q **Did you confirm the dial tone before entering the telephone number?**

A Make sure to confirm the dial tone before entering a telephone number. If you enter the number before the dial tone can be heard, the call may not connect, or the wrong number may be dialed.

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Network Problems (MF6580 Only)

Unable to print from a TCP/IP network.

Q **Are the machine and cable properly connected?**

A Check that the machine is connected to the network using the proper cable, then restart the machine. (See “Installing/Uninstalling Software,” in the Starter Guide.)

Q **Is the TCP/IP network properly set up?**

A Make sure the IP addresses are properly set up. If the IP addresses are set using DHCP, BOOTP, or RARP, make sure they are operating.

Q **Is the computer that is printing properly set up?**

A Make sure the proper printer driver is installed. (See “Installing/Uninstalling Software,” in the Starter Guide.)

A Make sure the correct machine is set as the output destination for the computer that is printing in [Printers and Faxes] or Print Manager.

Q **Is the name of the file being printed too long?**

A Rename the file with a shorter name. Normally LPR (or the Microsoft TCP/IP Printer, if you are using Windows 2000/XP) sends jobs either under the name of the application software used for printing, or the file name. However, a job name longer than 255 bytes cannot be sent to the machine.

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The printer port name is not displayed in [Print to the following port(s)].

Q	**Are the machine and cable properly connected?**
A	Check that the machine is connected to the network using the proper cable, then restart the machine. (See “Installing/Uninstalling Software,” in the Starter Guide.)
Q	**Is the computer that is printing properly set up?**
A	Make sure the proper printer driver is installed. (See “Installing/Uninstalling Software,” in the Starter Guide.)
A	Make sure the correct machine is set as the output destination for the computer that is printing in [Printers and Faxes] or [Printers].

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Customer Support

Customer Support (U.S.A)

Your machine is designed with the latest technology to provide trouble-free operation. If you encounter a problem with the machine's operation, try to solve it by using the information in this chapter. If you cannot solve the problem or if you think your machine needs servicing, contact Canon Customer Care Center at 1-800-828-4040 between the hours of 8:00 A.M. to 8:00 P.M. EST Monday through Friday and 10:00 A.M. to 8:00 P.M. on Saturday. 24 hour online support is also available at the website http://www.canontechsupport.com/

Customer Support (Canada)

Canon Canada Inc., offers a full range of customer technical support options*:

– For step-by-step troubleshooting, e-mail technical support, the latest driver or document downloads, and answers to frequently asked questions visit http://www.canon.ca/

– Automated step-by-step telephone support on most current products 24 hours, 7 days a week 1-800-652-2666

– Free live technical support 9 A.M. to 8 P.M. EST Monday through Friday (excluding holidays) for products still under warranty 1-800-652-2666

– The location of the authorized service facility nearest you visit http://www.canon.ca/ or 1-800-652-2666

– If the problem cannot be corrected by using one of the above technical support options, repair options are available at the time of your call to the live technical support number above or via the website at http://www.canon.ca/

* Support program specifics are subject to change without notice.

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Glossary

A

Activity Report

A journal of the machine's fax transactions, both sent and received.

Automatic Document Feeder (ADF)

The device included in the machine that feeds the document being faxed or copied, or scanned into the machine.

Automatic redialing

When the receiving fax machine is busy or does not answer, or when an error occurs while sending, the machine waits a specified time and then automatically redials the number. If the receiving fax is still busy or does not answer, the machine waits the specified time and dials again.

B

bps

Bits per second. Refers to the speed with which a fax machine sends and receives data.

BOOTP

BOOTstrap Protocol. A protocol that enables a client machine to automatically obtain network setup information from a server over a TCP/IP network. BOOTP enables a client to automatically locate such information as the host name, domain name, and IP address, so that it is not necessary to create these items manually.

Broadcasting

Transmitting documents to more than one location (through the machine's memory).

Buffer size

The size of a data area, or buffer, shared by devices or programs working at different speeds or with different priorities. The buffer is designed to prevent one device or process from being held up by another. For this to be possible, the buffer must be set up correctly.

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C

CNG

Calling Tone. This is a signal sent by fax machines to identify the call as an incoming document. When the receiving fax detects this signal, it automatically starts to receive the fax transmission. The majority of fax machines in use today can send and detect CNG signals.

Coded Speed Dialing

An automatic dialing method that allows you to dial a fax or telephone number by pressing [Coded Dial] and a two-digit code using the numeric keys.

Cookie

A file left on a user's computer when the user visits a web site. A cookie allows the web site to recognize the user on subsequent visits. Cookies are generally used to enable a user to automatically sign on to certain web sites and to customize the features offered by such sites.

Cursor

The underline symbol you see on the LCD when you register numbers and names in the machine.

D

Delayed sending

The ability to send a document at a preset time in the future. You do not have to be in your office to use delayed sending to one or more destinations.

DHCP

Dynamic Host Configuration Protocol. A protocol that automatically specifies the network settings of a client on a TCP/IP network. Many of the settings required to set up TCP/IP, which is the standard protocol of the Internet, can be made automatically.

Dialing methods

Ways of pressing one or more keys to access a number to connect to an outside party or fax machine.

Dialing methods include one-touch speed dialing, coded speed dialing, group dialing, address book dialing, redialing, and regular dialing with the numeric keys.

Document

The sheet of paper containing the data that you send to, or receive from a machine.

dpi

Dots per inch. A machine of measurement for indicating a machine's resolution.

DRPD

This receive mode allows the machine to distinguish fax and voice calls depending on the distinctive ring patterns assigned to different numbers. Subscription to a DRPD service offered by some telephone companies is required.

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E

ECM

Error Correction Mode. The ability of your machine to reduce system and line errors when sending or receiving from another fax with ECM capability. ECM is most effective in areas where the telephone lines are in poor condition or there is frequent interference on the line.

Ethernet

An industry-standard local area network (LAN) system for connecting together multiple computers. Data is sent from one computer to another by breaking it into packets, and a packet reaches its destination smoothly without any collision with other packets.

Extension

A telephone connected to the machine that is used in place of the handset. You can use the extension telephone to activate incoming reception of documents manually.

F

FAX/TEL switching

This option allows you to set the machine to automatically detect whether a call is from a fax or telephone. If the call is from another fax, the transmission is automatically received. If the call is from a telephone, the machine rings to let you know, so you can pick up the handset. With this feature, one telephone line can be shared by both the telephone and the fax.

File server

A personal computer or workstation to which two or more users on client personal computers can gain access via a local area network (LAN) in order to share and use its hard disk drive.

FINE

The resolution setting for documents with very small characters and lines.

G

G3, Group 3 fax machine

Defined by CCITT/ITU-T. Uses encoding schemes to transmit image data while reducing the amount of data that needs to be transmitted, thus reducing transmission time. G3 fax machines can transmit one page in less than one minute. Encoding schemes for G3 fax machines are Modified Huffman (MH), Modified READ (MR), Modified Modified READ (MMR), and Joint Bi-level Image expert Group (JBIG).

Gateway Address

The default address of a network or Web site. It provides a single domain name and point of entry to the site.

Group Dialing

A dialing method that enables you to dial multiple one-touch speed dialing or coded speed dialing numbers together as a group. This means that you can press just one key to enter numbers when sending the same document to many destinations.

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H

HP-GL/2

A graphics language that allows computer applications to draw graphic images using printers. Images in HP-GL/2 are represented as vector graphics. Vector objects describe an image in terms of geometric shapes, such as lines and polygons, and fills. HP-GL/2 is supported by your Canon machine.

HTTP

Hypertext Transfer Protocol. The client-server TCP/IP protocol used on the World Wide Web for the transfer of HTML (Hypertext Markup Language) documents across the Internet.

I

Interface

The connection between two devices that makes it possible for them to communicate with each other. The machine features a USB interface, which makes it compatible with IBM and similar personal computers.

Interface cable

The cable used to create the interface between a printer and a computer.

Interface port

The machine comes with one USB port, located on the back of the machine. You attach the cable that connects your computer and machine to this port.

Internet Protocol (IP)

The underlying set of networking rules that describes how data is transmitted across the Internet. Internet Protocol allows data from one computer to be split into packets to be sent to another computer with a specific IP address.

IP address

Internet Protocol address. A 32-bit numeric address used by IP (internet protocol) to specify a computer on the Internet. The IP address is usually written as four numbers separated by periods. An example is 128.121.4.5.

ITU-T

A committee created to set international standards for telecommunications.

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L

LAN

Local Area Network. It is a network system formed by linking a server, workstations, and computers, which are all located in the same building or some other relatively limited area.

Log in

Entering a password as a means of user authentication to start a computer session or access to a service.

LPD

Line Printer Daemon. A daemon is a program that runs, without human intervention, to accomplish a given task. The Line Printer Daemon controls the flow of print jobs to a printer.

M

MAC address

Media Access Control address. The hardware address of the network adapter of a computer connected to a local area network.

Manual receiving

A method of receiving faxes in which you answer all incoming calls using the external telephone. If you hear a slow beep it indicates an incoming fax transmission from another machine. Just press [Start] to receive the incoming fax.

Manual redialing

When you use regular dialing, you can redial a number manually simply by pressing [Redial] on the operation panel. The last number called is the number redialed.

Modem

A device that converts (MOdulates) digital data for transmission over telephone lines. At the receiving end, this device converts the modulated data (DEModulates) to digital format that the computer understands.

N

Numeric keys

The round, numbered keys on the operation panel marked the same as a standard telephone keypad.

Press them to perform regular dialing. You also use the numeric keys to enter numbers and letters when you register and names, and for entering coded speed dialing codes.

O

One-Touch Speed Dialing

An automatic dialing method that allows you to dial a fax or telephone number by pressing a single one-touch speed dial key.

One-Touch Speed Dial keys

The numbered keys on the operation panel that may be registered as single or a group of fax numbers. Once a number or group is registered, you press one key to dial the entire number or group.

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P

Paper feed

Refers to guiding a sheet of paper into the machine's paper path.

Paper feeder

The device in the machine that feeds recording media into the machine for printing copied or faxed documents.

Pause

A timing entry required for registering certain long distance numbers and for dialing out through some telephone systems or switchboards. Pressing [Pause] enters a pause between digits of a telephone number.

PHOTO

The document setting you use for sending or copying documents with intermediate tones, such as photographs.

Protocol

A set of rules that govern the transmission of data across a network. Examples of protocols are FTP, DHCP, BOOTP, RARP, IPP, and TCP/IP.

- FTP: File Transfer Protocol. A client-server protocol allowing a user to transfer files on one computer to and from another computer over a TCP/IP network. The File Transfer Protocol also governs the client program with which the user transfers files.
- DHCP: Dynamic Host Configuration Protocol. A protocol which automatically specifies the network settings of a client on a TCP/IP network. Many of the settings required to set up TCP/IP, which is the standard protocol of the Internet, can be made automatically.
- BOOTP: BOOT strap Protocol. A protocol that enables a client machine to automatically obtain network setup information from a server over a TCP/IP network. BOOTP enables a client to automatically locate such information as the host name, domain name, and IP address, so that it is not necessary to create these items manually.
- RARP: Reserve Address Resolution Protocol. A protocol which associates a network adapter address (MAC address) with an Internet Protocol (IP) address.
- IPP: Internet Printing Protocol. A protocol used between a client and a print server for carrying out remote printing over the Internet.
- TCP/IP (Transmission Control Protocol/Internet Protocol): The protocol used to connect to the Internet and to wide area networks.

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Proxy server

A server that provides a cache of files available on remote servers that are slow or expensive to access. The term “proxy server” normally refers to a World Wide Web server that, on receiving a URL, tries to supply the requested file from its cache. If it cannot locate the file there, the proxy server would bring it from the remote server and also save a copy in its cache so that the next request can be obtained locally.

Pulse

See Rotary pulse.

R

RARP

Reverse Address Resolution Protocol. A protocol that associates a network adapter address (MAC address) with an Internet Protocol (IP) address.

Raster

Raster graphics describes an image as a pattern of dots, compared to vector graphics which represents an image as a geometrical formula. Each row of color dots in the mosaic of color dots constitutes one raster graphic. In a printer, a raster graphic is used as the master image from which a page is printed, because the image can be transferred to paper by printing one raster at a time.

Raw

This is a print application used with Windows 2000/XP. It can print at higher speeds than LPD.

Receiving

Receiving transmission is also defined as RX or Reception. The machine can be customized to receive fax documents in several ways.

Reception

See Receiving.

Redialing-automatic

See Automatic redialing.

Redialing-manual

See Manual redialing.

Registering

A process by which you place fax or telephone numbers and names in the machine’s memory for speed dialing so that you can save time dialing destinations you call frequently.

Regular dialing

Pressing the individual numeric keys to dial a fax or telephone number.

Remote reception ID

The two-digit code that enables you to manually activate fax reception using an external telephone.

Remote reception

Activating fax reception by answering an external telephone that is not located near the machine. You need to dial a remote receiving ID number to start remote reception.

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Remote UI

Remote User Interface (UI) allows you to remotely perform machine functions from a computer connected to the network using web browser software. Many functions that are done physically at the Canon machine's operation panel can be done via software at a networked computer using a web browser, such as Microsoft Internet Explorer.

Report

A document printed by the machine and containing information about the faxes it has sent or received.

Resolution

The density of dots for any given output device. Expressed in terms of dots per inch (dpi). Low resolution causes font characters and graphics to have a jagged appearance. Higher resolution means smoother curves and angles as well as a better match to traditional typeface designs. Resolution values are represented by horizontal data and vertical data, for example, 600 x 600 dpi.

RIP (Raster Image Processor)

The hardware and/or software functions of a printer that convert vector graphic descriptions from a computer into raster graphic images that can be printed.

Rotary pulse

A telephone dialing system where a dial is rotated to send pulses to the telephone switching system. In pulse dialing, you hear clicks. In touch-tone dialing, the most common dialing system, you hear tones. Rotary pulse dialing requires certain setting adjustments.

RX

See Receiving.

S

Scope ID

The Scope ID is a character string value that is appended to the NetBIOS name, and is used for all NetBIOS over TCP/IP communications. It provides a way for a computer to communicate only with others sharing the same Scope ID.

Sending

A fax document that has been scanned by a fax machine and sent over telephone lines, in the form of electrical pulses, to another fax machine. Also called TX or Transmit.

Sending speed

The rate at which faxes are transmitted through the phone line. See also bps (bits per seconds).

SMB

Server Message Block. A protocol that provides file and printer sharing over a network for Windows computers.

Speed dialing

Dialing fax or telephone numbers by pressing a few keys. To use automatic dialing, you must register the numbers in the machine's memory. See also One-Touch Speed Dialing, Coded Speed Dialing, and Group Dialing.

Source Routing

Normally, a host has no control over the route taken by a packet it sends. Source routing is a technique whereby the sender of a packet can specify the route that a packet should take through the network to its destination.

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Spool

Simultaneous Peripheral Operations On-Line. Spooling means putting jobs in a buffer, which is a special area in memory or on a disk. Because devices access data at different rates, the buffer provides a waiting station where the data can wait until the device for which it is meant is ready to access it.

Standby

The mode in which the machine is on and ready to use.

Subnet Mask

SUBNETwork mask. The method used to determine which subgroup, or subnet, an IP address belongs to on TCP/IP networks, all devices whose IP addresses have the same prefix would belong to the same subnet. Dividing a network into subnets is useful for both security and performance reasons.

Switching hub

A network connection box to which a number of computers can be connected. The switching hub forwards a data packet from the network to the appropriate computer according to the packet's address. Conventional hubs simply send every packet to every connected computer. Since a switching hub forwards packets only to their intended recipients, it provides greater efficiency.

T

TCP/IP

Acronym for Transmission Control Protocol/Internet Protocol. The protocol used to connect to the Internet and to wide-area networks.

Tone

A key that allows you to temporarily switch to touch-tone from pulse dialing. In some countries, on-line data services may require that you use tone dialing.

Tone/pulse setting

The ability to set the machine to match the telephone dialing system your telephone line uses: touch-tone or rotary pulse.

Toner

A black, resin coated powder contained in the toner cartridge. The machine applies the toner to the surface of the photosensitive drum inside the machine via an electrophotographic mechanism.

Toner saver

The feature that extends cartridge life by reducing toner consumption rate at a slight decrease in print quality.

Transmit

See Sending.

TX

See Sending.

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URL

Uniform Resource Locator. A standard way of specifying the location of an object, usually a web page, on the Internet. The URL for a web page would look something like this: “http://www.w3.org/default.html”. Here, “http:” indicates that a web page is being accessed, “http://www.w3.org” is the address of the server containing the web page, and “default.html” is the file name under which the web page is stored on the server.

V

Vector Graphics

(See definition for Raster.)

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