



MINOLTA

Service Manual

The essentials of Imaging

SU-2/SU-3

1. SAFETY PRECAUTIONS FOR INSPECTION AND SERVICE

- When performing inspection and service procedures, observe the following precautions to prevent accidents and ensure utmost safety.
- * Depending on the model, some of the precautions given in the following do not apply.
- Different markings are used to denote specific meanings as detailed below.



- Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



- Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
- The following graphic symbols are used to give instructions that need to be observed.



Used to call the service technician attention to what is graphically represented inside the marking (including a warning).



Used to prohibit the service technician from doing what is graphically represented inside the marking.



Used to instruct the service technician to do what is graphically represented inside the marking.

1-1. Warning



1. Always observe precautions.



- Parts requiring special attention in this product will include a label containing the mark shown on the left plus precautionary notes. Be sure to observe the precautions.
- Be sure to observe the “Safety Information” given in the Operator’s Manual.



WARNING

2. Before starting the procedures, be sure to unplug the power cord.



- This product contains a high-voltage unit and a circuit with a large current capacity that may cause an electric shock or burn.
- The product also contains parts that can jerk suddenly and cause injury.
- If this product uses a laser, laser beam leakage may cause eye damage or blindness.

3. Do not throw toner or the toner bottle into a fire.



- Do not throw toner or the Toner Bottle (Imaging Cartridge, Toner Cartridge) into a fire. Toner expelled from the fire may cause burns.

4. Use the specified parts.



- For replacement parts, always use the genuine parts specified in the manufacturer's parts manual. Installing a wrong or unauthorized part could cause dielectric breakdown, overload, or undermine safety devices resulting in possible electric shock or fire.
- Replace a blown electrical fuse or thermal fuse with its corresponding genuine part specified in the manufacturer's parts manual. Installing a fuse of a different make or rating could lead to a possible fire. If a thermal fuse blows frequently, the temperature control system may have a problem and action must be taken to eliminate the cause of the problem.

5. Handle the power cord with care and never use a multiple outlet.



- Do not break, crush or otherwise damage the power cord. Placing a heavy object on the power cord, or pulling or bending it may damage it, resulting in a possible fire or electric shock.
- Do not use a multiple outlet to which any other appliance or machine is connected.
- Be sure the power outlet meets or exceeds the specified capacity.
- Use only the power cord supplied in the package. If a power cord is not supplied, only use the power cord and plug that is specified in POWER CORD INSTRUCTION. Failure to use this cord could result in a fire or electrical shock.
- Use the power cord supplied in the package only for this machine and NEVER use it for any other product. Failure to observe this precaution could result in a fire or electrical shock.

6. Be careful with the high-voltage parts.



- A part marked with the symbol shown on the left carries a high voltage. Touching it could result in an electric shock or burn. Be sure to unplug the power cord before servicing this part or the parts near it.

7. Do not work with wet hands.



- Do not unplug or plug in the power cord, or perform any kind of service or inspection with wet hands. Doing so could result in an electric shock.



WARNING

8. Do not touch a high-temperature part.



- A part marked with the symbol shown on the left and other parts such as the exposure lamp and fusing roller can be very hot while the machine is energized. Touching them may result in a burn.
- Wait until these parts have cooled down before replacing them or any surrounding parts.

9. Maintain a grounded connection at all times.



- Connect the power cord to an electrical outlet that is equipped with a grounding terminal.

10. Do not remodel the product.



- Modifying this product in a manner not authorized by the manufacturer may result in a fire or electric shock. If this product uses a laser, laser beam leakage may cause eye damage or blindness.

11. Restore all parts and harnesses to their original positions.



- To promote safety and prevent product damage, make sure the harnesses are returned to their original positions and properly secured in their clamps and saddles in order to avoid hot parts, high-voltage parts, sharp edges, or being crushed.
- To promote safety, make sure that all tubing and other insulating materials are returned to their original positions. Make sure that floating components mounted on the circuit boards are at their correct distance and position off the boards.

1-2. Caution



CAUTION

1. Precautions for Service Jobs.



- A star washer and spring washer, if used originally, must be reinstalled. Omitting them may result in contact failure which could cause an electric shock or fire.
- When reassembling parts, make sure that the correct screws (size, type) are used in the correct places. Using the wrong screw could lead to stripped threads, poorly secured parts, poor insulating or grounding, and result in a malfunction, electric shock or injury.
- Take great care to avoid personal injury from possible burrs and sharp edges on the parts, frames and chassis of the product.
- When moving the product or removing an option, use care not to injure your back or allow your hands to be caught in mechanisms.



CAUTION

2. Precautions for Servicing with Covers and Parts Removed.



- Wherever feasible, keep all parts and covers mounted when energizing the product.
- If energizing the product with a cover removed is absolutely unavoidable, do not touch any exposed live parts and use care not to allow your clothing to be caught in the moving parts. Never leave a product in this condition unattended.
- Never place disassembled parts or a container of liquid on the product. Parts falling into, or the liquid spilling inside, the mechanism could result in an electric shock or fire.



- Never use a flammable spray near the product. This could result in a fire.
- Make sure the power cord is unplugged before removing or installing circuit boards or plugging in or unplugging connectors.
- Always use the interlock switch actuating jig to actuate an interlock switch when a cover is opened or removed. The use of folded paper or some other object may damage the interlock switch mechanism, possibly resulting in an electric shock, injury or blindness.

3. Precautions for the Working Environment.



- The product must be placed on a flat, level surface that is stable and secure.
- Never place this product or its parts on an unsteady or tilting workbench when servicing.
- Provide good ventilation at regular intervals if a service job must be done in a confined space for a long period of time.
- Avoid dusty locations and places exposed to oil or steam.
- Avoid working positions that may block the ventilation ports of the product.

4. Precautions for Handling Batteries. (Lithium, Nickel-Cadmium, etc.)



- Replace a rundown battery with the same type as specified in the manufacturer's parts manual.
- Before installing a new battery, make sure of the correct polarity of the installation or the battery could burst.
- Dispose of used batteries according to the local regulations. Never dispose of them at the user's premises or attempt to try to discharge one.

5. Precautions for the Laser Beam. (Only for Products Employing a Laser)



- Removing the cover marked with the caution label could lead to possible exposure to the laser beam, resulting in eye damage or blindness. Be sure to unplug the power cord before removing this cover.
- If removing this cover while the power is ON is unavoidable, be sure to wear protective laser goggles that meet specifications.
- Make sure that no one enters the room when the machine is in this condition.
- When handling the laser unit, observe the "Precautions for Handling Laser Equipment."

6. Precautions for storing the toner or imaging cartridge.



- Be sure to keep the toner or imaging cartridge out of the reach of children. Licking the imaging cartridge or ingesting its contents is harmful to your health.

1-3. Used Batteries Precautions

ALL Areas

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

Germany

VORSICHT!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleichwertigen Typ.

Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

France

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

Denmark

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri af samme fabrikat og type.

Levér det brugte batteri tilbage til leverandøren.

Finland, Sweden

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.

Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt fabrikantens instruktion.

Norway

ADVARSEL

Eksplosjonsfare ved feilaktig skifte av batteri.

Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten.

Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

1-4. Other Precautions

- When handling circuit boards, observe the “HANDLING of PWBs”.
- The PC Drum is a very delicate component. Observe the precautions given in “HANDLING OF THE PC DRUM” because mishandling may result in serious image problems.
- Note that replacement of a circuit board may call for readjustments or resetting of particular items, or software installation.

1-5. Precautions for Service

- When performing inspection and service procedures, observe the following precautions to prevent mishandling of the machine and its parts.
- * Depending on the model, some of the precautions given in the following do not apply.

1. Precautions Before Service

- When the user is using a word processor or personal computer from a wall outlet of the same line, take necessary steps to prevent the circuit breaker from opening due to overloads.
- Never disturb the LAN by breaking or making a network connection, altering termination, installing or removing networking hardware or software, or shutting down networked devices without the knowledge and express permission of the network administrator or the shop supervisor.

2. How to Use this Book

DIS/REASSEMBLY, ADJUSTMENT

- To reassemble the product, reverse the order of disassembly unless otherwise specified.

TROUBLESHOOTING

- If a component on a PWB or any other functional unit including a motor is defective, the text only instructs you to replace the whole PWB or functional unit and does not give troubleshooting procedures applicable within the defective unit.
- All troubleshooting procedures contained herein assume that there are no breaks in the harnesses and cords and all connectors are plugged into the right positions.
- The procedures preclude possible malfunctions due to noise and other external causes.

3. Precautions for Service

- Keep all disassembled parts in good order and keep tools under control so that none will be lost or damaged.
- After completing a service job, perform a safety check. Make sure that all parts, wiring and screws are returned to their original positions.
- Do not pull out the toner hopper while the toner bottle is turning. This could result in a damaged motor or locking mechanism.
- If the product is to be run with the front door open, make sure that the toner hopper is in the locked position.
- Do not use an air gun or vacuum cleaner for cleaning the ATDC Sensor and other sensors, as they can cause electrostatic destruction. Use a blower brush and cloth. If a unit containing these sensors is to be cleaned, first remove the sensors from the unit.

4. Precautions for Dis/Reassembly

- Be sure to unplug the copier from the outlet before attempting to service the copier.
- The basic rule is not to operate the copier anytime during disassembly. If it is absolutely necessary to run the copier with its covers removed, use care not to allow your clothing to be caught in revolving parts such as the timing belt and gears.
- Before attempting to replace parts and unplug connectors, make sure that the power cord of the copier has been unplugged from the wall outlet.
- Be sure to use the Interlock Switch Actuating Jig whenever it is necessary to actuate the Interlock Switch with the covers left open or removed.
- While the product is energized, do not unplug or plug connectors into the circuit boards or harnesses.
- Never use flammable sprays near the copier.
- A used battery should be disposed of according to the local regulations and never be discarded casually or left unattended at the user's premises.
- When reassembling parts, make sure that the correct screws (size, type) and toothed washer are used in the correct places.

5. Precautions for Circuit Inspection

- Never create a closed circuit across connector pins except those specified in the text and on the printed circuit.
- When creating a closed circuit and measuring a voltage across connector pins specified in the text, be sure to use the GND wire.

6. Handling of PWBs

During Transportation/Storage

- During transportation or when in storage, new P.W. Boards must not be indiscriminately removed from their protective conductive bags.
- Do not store or place P.W. Boards in a location exposed to direct sunlight and high temperature.
- When it becomes absolutely necessary to remove a Board from its conductive bag or case, always place it on its conductive mat in an area as free as possible from static electricity.
- Do not touch the pins of the ICs with your bare hands.
- Protect the PWBs from any external force so that they are not bent or damaged.

During Inspection/Replacement

- Avoid checking the IC directly with a multimeter; use connectors on the Board.
- Never create a closed circuit across IC pins with a metal tool.
- Before unplugging connectors from the P.W. Boards, make sure that the power cord has been unplugged from the outlet.
- When removing a Board from its conductive bag or conductive case, do not touch the pins of the ICs or the printed pattern. Place it in position by holding only the edges of the Board.
- When touching the PWB, wear a wrist strap and connect its cord to a securely grounded place whenever possible. If you cannot wear a wrist strap, touch a metal part to discharge static electricity before touching the PWB.
- Note that replacement of a PWB may call for readjustments or resetting of particular items.

7. Handling of Other Parts

- The magnet roller generates a strong magnetic field. Do not bring it near a watch, floppy disk, magnetic card, or CRT tube.

8. Handling of the PC Drum

* Only for Products Not Employing an Imaging Cartridge.

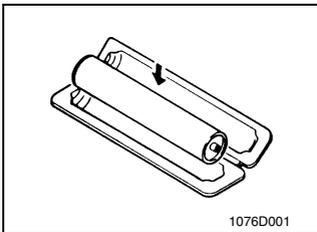
During Transportation/Storage

- Use the specified carton whenever moving or storing the PC Drum.
- The storage temperature is in the range between -20°C and $+40^{\circ}\text{C}$.
- In summer, avoid leaving the PC Drum in a car for a long time.

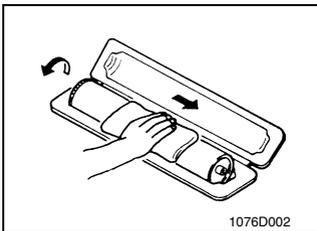
Handling

- Ensure that the correct PC Drum is used.
- Whenever the PC Drum has been removed from the copier, store it in its carton or protect it with a Drum Cloth.
- The PC Drum exhibits greatest light fatigue after being exposed to strong light over an extended period of time. Never, therefore, expose it to direct sunlight.
- Use care not to contaminate the surface of the PC Drum with oil-base solvent, fingerprints, and other foreign matter.
- Do not scratch the surface of the PC Drum.
- Do not apply chemicals to the surface of the PC Drum.
- Do not attempt to wipe clean the surface of the PC Drum.

If, however, the surface is contaminated with fingerprints, clean it using the following procedure.

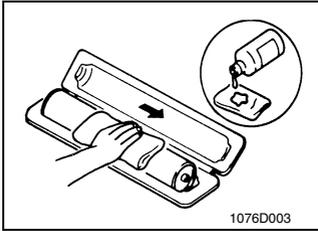


A. Place the PC Drum into one half of its carton.



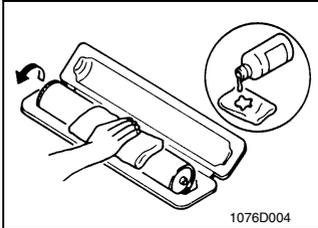
B. Gently wipe the residual toner off the surface of the PC Drum with a dry, Dust-Free Cotton Pad.

- Turn the PC Drum so that the area of its surface on which the line of toner left by the Cleaning Blade is present is facing straight up. Wipe the surface in one continuous movement from the rear edge of the PC Drum to the front edge and off the surface of the PC Drum.
 - Turn the PC Drum slightly and wipe the newly exposed surface area with a CLEAN face of the Dust-Free Cotton Pad. Repeat this procedure until the entire surface of the PC Drum has been thoroughly cleaned.
- * At this time, always use a CLEAN face of the dry Dust-Free Cotton Pad until no toner is evident on the face of the Pad after wiping.



- C. Soak a small amount of either ethyl alcohol or isopropyl alcohol into a clean, unused Dust-Free Cotton Pad which has been folded over into quarters. Now, wipe the surface of the PC Drum in one continuous movement from its rear edge to its front edge and off its surface one to two times.

* Never move the Pad back and forth.



- D. Using the SAME face of the Pad, repeat the procedure explained in the latter half of step 3 until the entire surface of the PC Drum has been wiped. Always OVERLAP the areas when wiping. Two complete turns of the PC Drum would be appropriate for cleaning.

NOTES

- Even when the PC Drum is only locally dirtied, wipe the entire surface.
 - Do not expose the PC Drum to direct sunlight. Clean it as quickly as possible even under interior illumination.
 - If dirt remains after cleaning, repeat the entire procedure from the beginning one more time.
-

9. Handling of the Imaging Cartridge and Print Unit

* Only for Products Employing an Imaging Cartridge and Print Unit.

During Transportation/Storage

- The storage temperature is in the range between -20°C and $+40^{\circ}\text{C}$.
- In summer, avoid leaving the Imaging Cartridge and Print Unit in a car for a long time.

Handling

- Store the Imaging Cartridge and Print Unit in a place that is not exposed to direct sunlight.

Precautionary Information on the PC Drum Inside the Imaging Cartridge and Print Unit.

- Use care not to contaminate the surface of the PC Drum with oil-base solvent, fingerprints, and other foreign matter.
- Do not scratch the surface of the PC Drum.
- Do not attempt to wipe clean the surface of the PC Drum.

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GENERAL

1. Overview and Specifications

- The following is an overview of the functions of network scanners and network interfaces:
- For details and requirements, referred to the “electronic manual” in the manual.

1-1. Difference between functions available on different models

- Depending on model, the functions that can be used differ, and are as follows.
SU-2: Network Scan Kit
SU-3: Internet Fax & Network Scan Kit

Function Name	SU-2	SU-3	Remarks
Scan to E-Mail	○	○	
Scan to Server (FTP)	○	○	
Scan to PC (FTP)	○	○	
Scan to HDD	○	○	The function expansion hard disk kit is required
PageScope Light	○	○	
Scan to PC (SMTP)	×	○	Uses IP Scanner /Image Receiver
Internet fax	×	○	
IP Address Fax	×	○	
IP Scanner	×	○	Uses IP Scanner /Image Receiver
Transmission from fax document	×	○	When the device is Di2010f/ Di2510f/Di3010f/Di3510f
Direct fax	×	○	When the device is Di2010f/ Di2510f/Di3010f/Di3510f Uses Network Fax transmission (EX Lite Edition)

1-2. Scan to E-mail

Attaches the scanned document image data to e-mail, and transmits it to a PC.

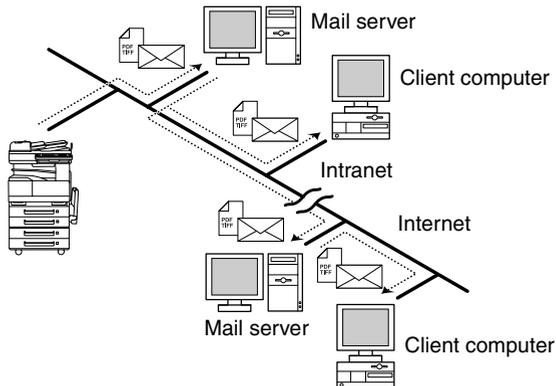
Similar to when sending an Internet fax, a paper document can be easily sent via e-mail at the push of a button.

- The document to be transmitted is attached to MIME format e-mail as either a TIFF-F format or PDF format image file, and then transmitted. In order to view the image that has been received by the PC, e-mail software that supports the MIME format, and software that can display either TIFF-F or PDF format image files needs to be installed.
- TIFF-F format images can be viewed using the TIFF Viewer, installed as standard on Windows.
- PDF format images can be viewed using Acrobat Reader, included as a utility.
- A network environment that includes a mail server is required.
- The device needs to be connected to the LAN, and configured as part of the network.

STEP 1: Indicate transmission to a user PC in the same way as transmitting a fax.

STEP 2: Store the scanned image on the mail server.

STEP 3: Use e-mail software to import the scanned image that is on the mail server.

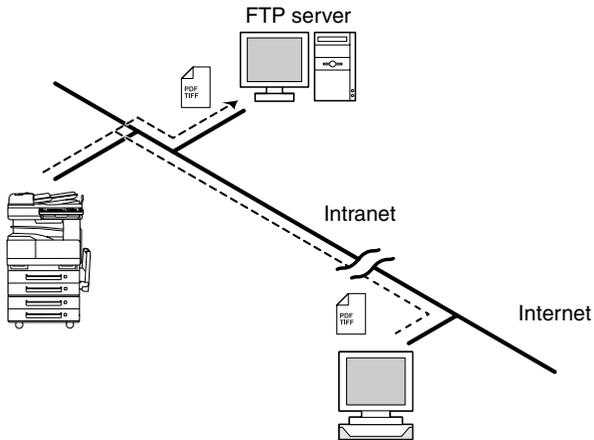


Specifications

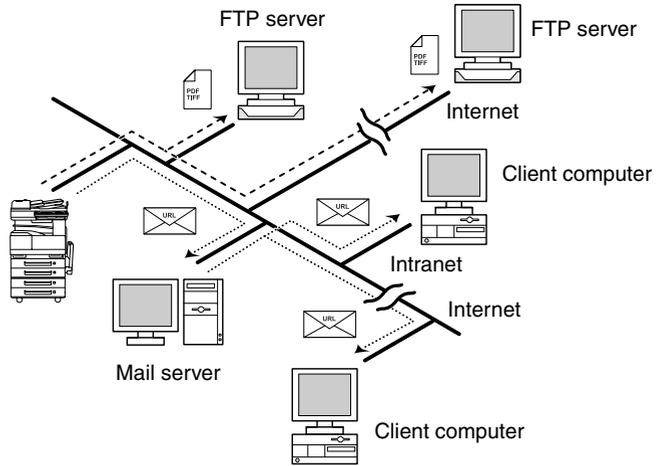
Communications protocol	E-mail transmission: SMTP (IETF RFC2821 and RFC2822) procedure TCP/IP transmission
Transmitted document size	A4, B4, A3
Resolution	200 × 100dpi, 200 × 200dpi, 400 × 400dpi, 600 × 600dpi
Data format	E-mail format: MIME Attachment format: TIFF-F, PDF
Coding method	MH, MMR
Compatible circuits	Ethernet LAN (100BASE-TX, 10BASE-T connection)
Destination registration	Registered PC mail addresses: Maximum 540

1-3. Scan to Server (FTP)

- Scan data can be uploaded as TIFF or PDF files to a specified directory on an FTP server.
- In order to view the image that has been received by the PC, software that can display either TIFF-F or PDF format image files needs to be installed.
- TIFF-F format images can be viewed using the TIFF Viewer, installed as standard on Windows.
- PDF format images can be viewed using Acrobat Reader, included as a utility.
- A network environment that includes an FTP server is required.
- An FTP server on the Internet can be accessed through a proxy server.
- A maximum of five FTP servers can be registered, and a maximum of five directories can be set up on each FTP server.
- The device needs to be connected to the LAN, and configured as part of the network.



- With the “URL Report” function, a notification of the URL where the scan data is saved can be sent by e-mail. (If the “URL Report” function is used, a mail server is required.)

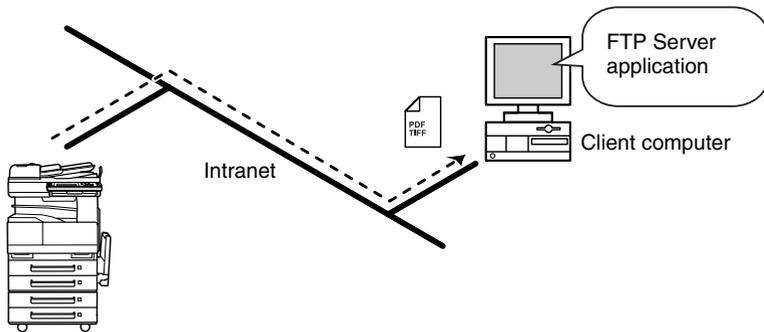


Specifications

Communications protocol	FTP, TCP/IP transmission
Resolution	200 × 100dpi, 200 × 200dpi, 400 × 400dpi, 600 × 600dpi
Data format	TIFF, PDF
Coding method	MH, MMR
Compatible circuits	Ethernet LAN (100BASE-TX, 10BASE-T connection)
Destination registration	<p>When registering one-touch keys, select the destination FTP server and the directory. The FTP server and directory must have been registered in advance using the network settings screen.</p> <p>A maximum of five FTP servers can be registered, and a maximum of five directories can be registered on each FTP server.</p> <p>If all directories will be registered on the same FTP server, then a maximum of 25 directories can be registered on that single server.</p>

1-4. Scan to PC (FTP)

- Scan data can be sent as TIFF or PDF files to client computers using FTP.
- In order to view the image that has been received by the PC, software that can display either TIFF-F or PDF format image files needs to be installed.
- TIFF-F format images can be viewed using the TIFF Viewer, installed as standard on Windows.
- PDF format images can be viewed using Acrobat Reader, included as a utility.
- The FTP server application must be running on the client computers.
- The forwarding destination on the client computer is the root folder specified with the FTP server application. This setting cannot be specified from the copier's control panel or from PageScope Light.
- The device needs to be connected to the LAN, and configured as part of the network.

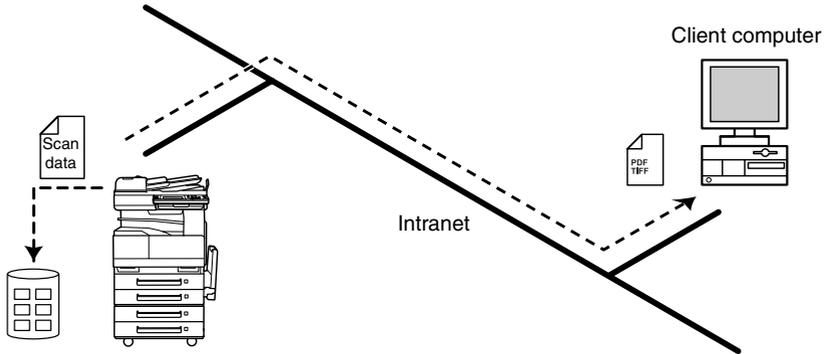


Specifications

Communications protocol	FTP, TCP/IP transmission
Resolution	200 × 100dpi, 200 × 200dpi, 400 × 400dpi, 600 × 600dpi
Data format	TIFF, PDF
Coding method	MH, MMR
Compatible circuits	Ethernet LAN (100BASE-TX, 10BASE-T connection)
Destination registration	Register one-touch keys with destination PC IP address.
Remarks	The FTP server application must be running on the destination PC. In Scan to PC (FTP) transmission, access to the FTP server is "anonymous". Transmission of data to FTP servers that do not allow anonymous users is not possible.

1-5. Scan to HDD

- Scan data is saved on the copier's hard disk as TIFF or PDF files.
- In order to view the image that has been received by the PC, software that can display either TIFF-F or PDF format image files needs to be installed.
- TIFF-F format images can be viewed using the TIFF Viewer, installed as standard on Windows.
- PDF format images can be viewed using Acrobat Reader, included as a utility.
- With the "URL Report" function, a notification of the URL where the scan data is saved can be sent by e-mail. (If the "URL Report" function is used, a mail server is required.)
- The device needs to be connected to the LAN, and configured as part of the network.



Specifications

Resolution	200 × 100dpi, 200 × 200dpi, 400 × 400dpi, 600 × 600dpi
Data format	TIFF, PDF
Coding method	MH, MMR
Destination registration	When registering one-touch keys, select the mail box to save to. A mail box must have been created in advance using PageScope Light. A maximum of 115 user boxes can be created.
Remarks	Loading of data takes place from PageScope Light.

1-6. Scan to PC (SMTP)

Transmits scanned document images and data to your own PC and stores it in a previously specified folder.

Even in an environment that does not use mail service, a paper document can be saved as an electronic file simply by using a one touch key.

To do this, it is necessary to register in advance the IP address or host name of the filing computer, on the device using the one touch key. On PCs, it is necessary to specify the filing location folder, using the IP Scanner included as a utility. In addition, it is possible to use the IP scanner configurations in order to use a one touch key to create, and save to a folder.

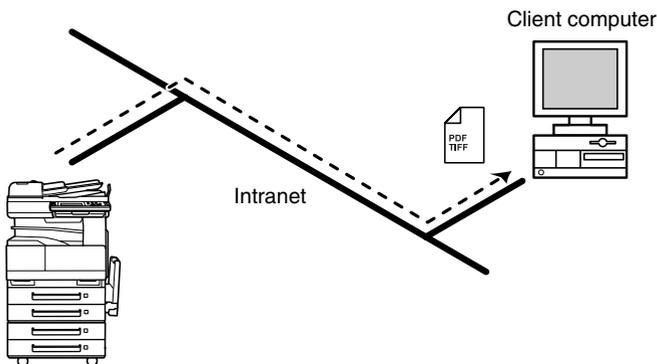
- The document to be transmitted is transmitted as either a TIFF-F format or PDF format image file. In order to view the image that has been received by the PC, software that can display either TIFF-F or PDF format image files needs to be installed.
- TIFF-F format images can be viewed using the TIFF Viewer, installed as standard on Windows.
- PDF format images can be viewed using Acrobat Reader, included as a utility.
- In order to save the image that has been received by the PC, the enclosed utilities IP Scanner and Image Receiver are required.
- If there is a DHCP server on the network, this function may not operate correctly since IP addresses are automatically distributed to each computer. In this case, specify a fixed IP address for the computer or use IP Scanner.
- The device needs to be connected to the LAN, and configured as part of the network.

STEP 1: Program a one-touch key with the IP address of the computer receiving the data.

STEP 2: Using the same procedure for sending e-mail messages, specify that the data is to be sent to a computer.

STEP 3: The sent scan data is received by the recipient computer.

STEP 4: The IP Scanner application converts the data to a TIFF or PDF file, then saves the file in the specified folder.



Specifications

Communications protocol	TCP/IP transmission
Transmitted document size	A4, B4, A3
Resolution (dpi)	200 × 100dpi, 200 × 200dpi, 400 × 400dpi, 600 × 600dpi
Data format	TIFF-F, PDF
Coding method	MH, MMR
Destination registration	Register the PC IP address Maximum 540
Storage folder settings	Specify a directory on the PC. Below this, directories specified by the PC may be created for each data item.

1-7. Internet Fax

Scanned document image data is attached to an e-mail, and is sent to an Internet fax terminal through the Internet or an Intranet.

When sending, specify an e-mail address in the same way as specifying a telephone (fax) number when sending a regular fax.

If the recipient is already specified with a one-touch key, transmission is easy with the single touch of a button.

- The document to be transmitted is attached to MIME format e-mail as a TIFF-F format image file, and then transmitted.
- TIFF-F format images can be viewed using the TIFF Viewer, installed as standard on Windows.
- Internet fax is totally different to a normal fax, which transmits through telephone lines, in that there is no direct connection with the recipient. There are certain inherent limitations.
- When transmitting faxes using Internet fax, the sender can check reception results from the recipient.

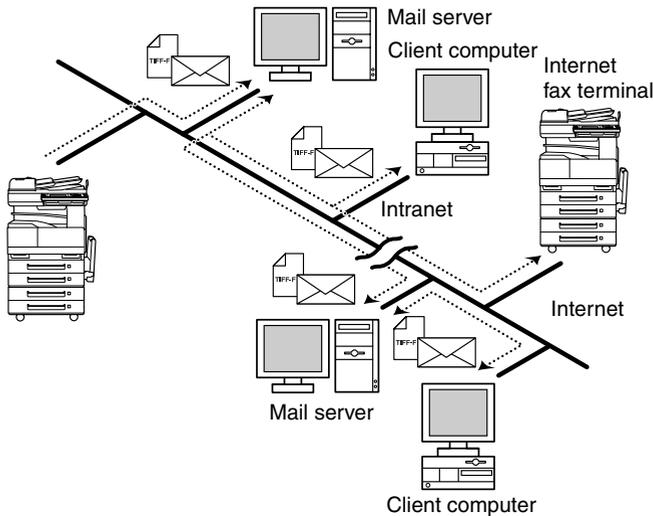
In addition, the sender can detect the reception capabilities of the recipient machine, and transmit in accordance with those capabilities (the recipient must also have a machine that is compatible with the full mode).

- The device needs to be connected to the LAN, and configured as part of the network.

STEP 1: Specify the e-mail address, and from the transmission display, transmit the Internet fax.

STEP 2: Transmit the image to the recipient over an existing e-mail network.

STEP 3: Retrieve mail from the server, and receive the Internet fax.



Specifications

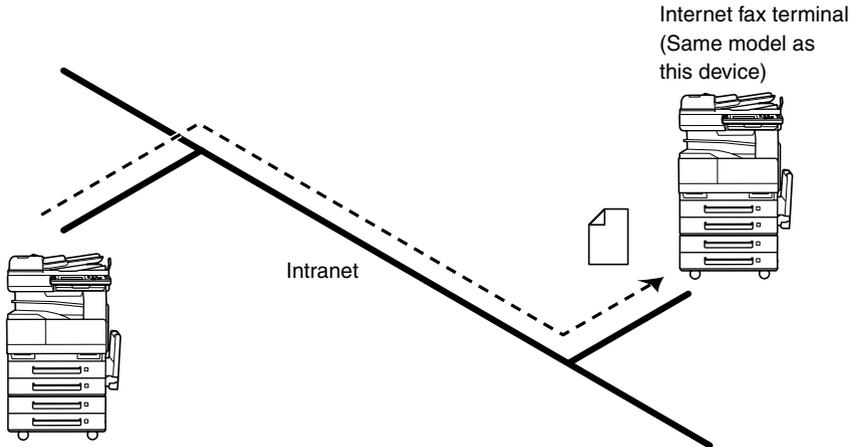
Communications protocol	E-mail transmission: SMTP (IETF RFC2821 and RFC2822) TCP/IP transmission E-mail reception: POP3(IETF RFC1725 and RFC1939) TCP/IP transmission
Transmitted document size	A4, B4, A3
Resolution (dpi)	200 × 100dpi, 200 × 200dpi, 400 × 400dpi, 600 × 600dpi
Data format	E-mail format: MIME Attachment format: TIFF-F
Coding method	MH, MR, MMR
Compatible circuits	Ethernet LAN (100BASE-TX, 10BASE-T connection)

1-8. IP Address Fax (LAN-FAX)

Scan data is sent to a copier of the same type (Internet fax) through the Internet, without passing through a mail server.

To do this, it is necessary to register in advance the IP address or host name of the recipient, in the device using the one touch key.

- The device needs to be connected to the LAN, and configured as part of the network.
- STEP 1: Program a one-touch key with the IP address or host name of the recipient.
STEP 2: Specify the recipient using the one-touch key, and from the transmission display, transmit IP address fax.
STEP 3: Retrieve the fax image (IP address fax transmission).



Specifications

Communications protocol	E-mail transmission: SMTP (IETF RFC2821 and RFC2822) TCP/IP transmission
Transmitted document size	A4, B4, A3
Resolution	200 × 100dpi, 200 × 200dpi, 400 × 400dpi, 600 × 600dpi
Data format	TIFF-F
Coding method	MH, MR, MMR
Destination registration	Register the destination IP address Maximum 540

1-9. IP Scanner

Scanned image data is sent to a client computer, where it is saved in a folder that is created using the name of the scanner button.

After programming a button (Scan data destination and scan settings) from the client computer when scanning, a paper document can easily be saved as an electronic file with just the touch of a button in the copier's touch panel.

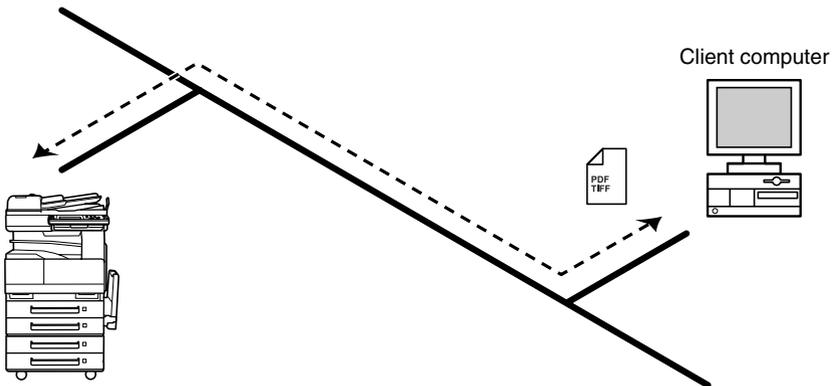
- The document to be transmitted is transmitted as either a TIFF-F format or PDF format image file. In order to view the image that has been received by the PC, software that can display either TIFF-F or PDF format image files needs to be installed.
- TIFF-F format images can be viewed using the TIFF Viewer, installed as standard on Windows.
- PDF format images can be viewed using Acrobat Reader, included as a utility.
- In order to view the image that has been received by the PC, the enclosed utilities IP Scanner and Image Receiver are required.
- This function can be used in a network without a LAN if a crossover cable is used to connect the copier to a client computer. (Network settings are required.)
- The device needs to be connected to the LAN, and configured as part of the network. In addition, the destination PC also needs to be connected to the LAN, and configured as part of the network.

STEP 1: From the user's PC, program a button (recipient of the scan data).

STEP 2: Press the programmed button to send the scan image.

STEP 3: The sent scan image is received by the recipient computer.

STEP 4: The IP Scanner application converts the data to an image file (TIFF-F format), then saves the file in the specified folder.



Specifications

Communications protocol	TCP/IP transmission
Transmitted document size	A4, B4, A3
Resolution (dpi)	200 × 200dpi, 400 × 400dpi, 600 × 600dpi
Data format	TIFF-F, PDF
Coding method	MH, MMR
Destination registration	Destination registration not required: automatically obtains the OP address from the PC when scanning. Button registration: A maximum of six scanner buttons on a copier can be programmed.
Storage folder settings	Specify a directory on the PC. Below this, directories specified by the PC may be created for each data item.

1-10. Distribution of Fax Documents

Image data received from a fax machine on a common telephone line can be sent directly to a computer or attached to an e-mail message.

The fax document can be received at your own computer.

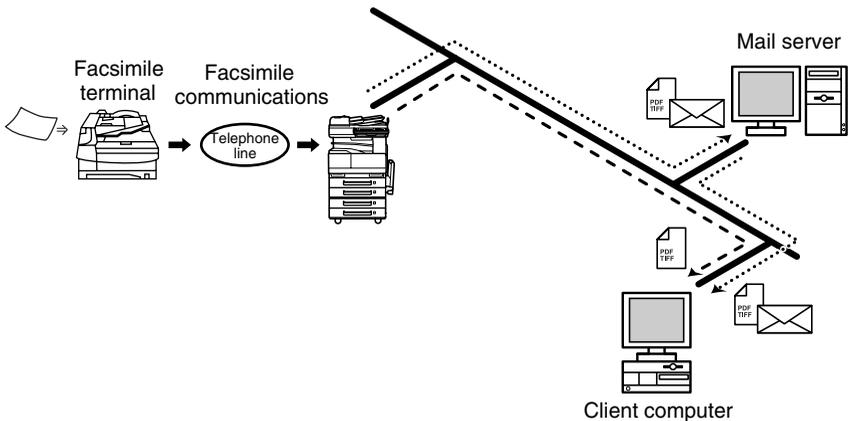
Received fax documents can be classified as “F-Code”, “Reception Port” or “Public Document”, and the distribution destinations for each type of document can be specified.

- By specifying a one-touch key as a forwarding destination, fax documents can be sent as TIFF or PDF image format files directly to computers, or as a TIFF image file directly as a MIME e-mail attachment. In order to view the image that has been received by the PC, software that can display either TIFF-F or PDF format image files needs to be installed. Additionally, in order to transmit e-mail, MIME compliant e-mail software is required.
- TIFF-F format images can be viewed using the TIFF Viewer, installed as standard on Windows.
- PDF format images can be viewed using Acrobat Reader, included as a utility.
- F codes are used in various other ways, such as a mailbox or a bulletin board.
When specifying F codes, we recommend managing numbers, such as by classifying the data by function, in order to prevent number duplication.
- When forwarding faxes by e-mail, a network environment that includes a mail server is required.
- The device needs to be connected to the LAN, and configured as part of the network.

STEP 1: Use the Doc. Manage settings to classify and store the fax image.

STEP 2: The fax image is sent to the computer specified as the recipient.

STEP 3: The fax image is received by the recipient computer as an image file.



Specifications

Registering forwarding destinations	In account registration for this copier, specify the F-Code or forwarding destination mail address.
-------------------------------------	---

1-11. Direct Fax Transmission

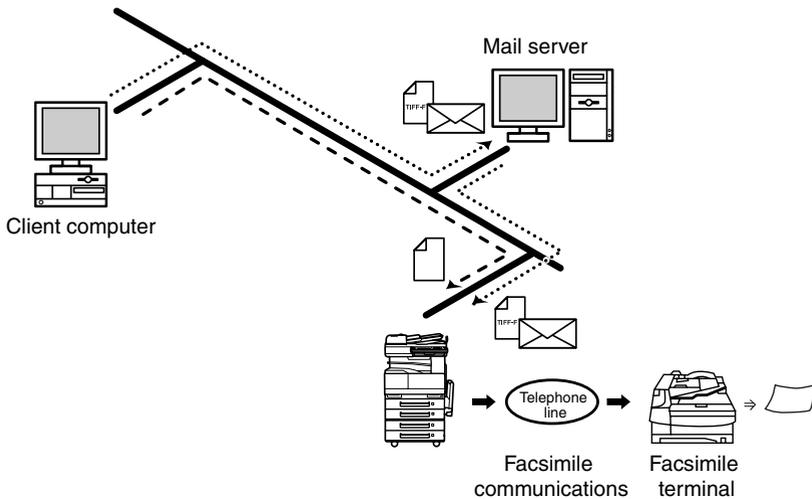
A document created in an application, such as word-processing software, can be faxed by specifying the telephone (fax) number of the recipient, without first printing the document. An e-mail address or a telephone (fax) number can be specified for the recipient.

- To carry out direct fax transmission, “Network FAX Transmission”, included as a utility is required. Check the network environment, configure the network, and install “Network FAX”.
- In order to perform direct faxing operations using a mail server, the DNS settings must be specified.
- The result of the completed fax transmission can be checked from the computer.
- The device needs to be connected to the LAN, and configured as part of the network.

STEP 1: Specify the fax number of the destination (specify the recipient after specifying printing from the application).

STEP 2: The image data is transmitted from the client computer or mail server.

STEP 3: The data received by the computer is sent to the specified fax number.



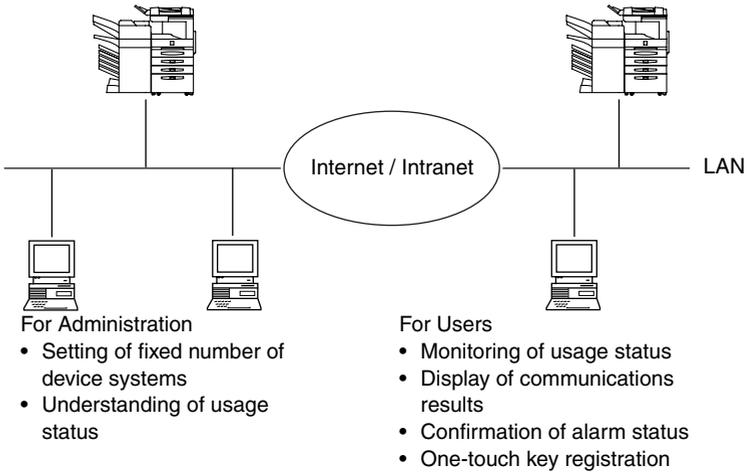
Specifications

Sender	FAX, E-Mail, iFAX
Transmitted document size	A4, B4, A3
Resolution	200 × 200 dpi, 400 × 400 dpi
Coding method	FAX: MH E-Mail/ iFAX: TIFF
Data exchange	FAX data ← Conversion → BMP, TIFF data
Transmission quantity	Comments of maximum of approximately 700 single byte characters can be input.
Broadcast transmission	Maximum 1500
Entries in phone book	Per single phone book: Maximum 1000 entries (No limit on number of phone books)
Phone book search functions	Search: search for "Paris", and it searches for all items containing "Paris". Search on Item: specify parameters and search. Search on Group: select a group name and search.
Management functions	Document storage: specify storage numbers for each document box and warnings for transmission. Nondelivered document management: resend nondelivered documents Trash: interim storage of documents discarded from document boxes. Headers: Registration of each document's headers (30). Creation of tables: Documents, nondelivered documents, transmitted documents, documents in the trash.

1-12. PageScope Light

PageScope Light is a utility for managing devices supported by the HTTP server integrated into the printer/scanner controller.

Using a Web browser, PageScope Light can remotely control the printer/scanner controllers on the network.



Specifications

Communications protocol	TCP/IP, HTTP
Data format	HTML
Supported browsers	Windows 95/98/Me/NT4.0: Internet Explorer 4 or later Netscape Navigator 4.73 or 7.0 Windows 2000: Internet Explorer 5 or later Netscape Navigator 7.0 Windows XP: Internet Explorer 6 or later Netscape Navigator 7.0

1-13. Overview of Attached Utilities

Network FAX transmission	Software that enables users to send faxes directly from applications by specifying the telephone (fax) number, without first printing the document.
IP Scanner	IP Scanner functions and one-touch document scanning – Software that enables users to IP address type functions. Supported OS: Microsoft Windows 95 (English edition) Microsoft Windows 98 (English edition) Microsoft Windows Me (English edition) Microsoft Windows NT4.0 (English edition) Microsoft Windows 2000 (English edition) Microsoft Windows XP (English edition)

(1) “Network FAX” Operating Environment (Reference)

- For detailed operating restrictions, refer to the “Network FAX” user’s manual. (electronic manual)

PC Type	PC/AT compatible machines. (Limited to all officially supported Windows98/ Me/ NT4.0/ 2000/ XP versions)
CPU	Pentium 133 MHz or higher
Memory	24 MB or more (48 MB recommended) *IP Scanner: 32 MB or more (64 MB recommended) 64 MB or more (128 MB recommended) for Windows® XP or Windows® 2000
Hard disk free space	50 MB or more (More recommended for document management functions)
Supported operating systems	Microsoft Windows 98 (English edition) Microsoft Windows Me (English edition) Microsoft Windows NT4.0 (English edition) Microsoft Windows 2000 (English edition) Microsoft Windows XP (English edition)
Operation environment	A network environment that can be used by this computer or a mail server.

2. Restrictions and Precautions for using network Applications

2-1. Precautions when using Network Applications

- Internet faxes and Scan to E-mail transmissions are sent and received with the help of a mail server; they are not sent directly to the recipient or received directly from the sender. In addition, as soon as transmission with the server is finished correctly, the transmission is considered complete.
- If transmission from the mail server to the recipient is not possible for some reason, an e-mail describing the error will be received from the server.
- For some reason, the e-mail describing the error may not be received. If confirmation of the transmission is required, call the recipient after transmission to confirm reception.
- Since the privacy of transmissions through the Internet or an intranet is limited, we recommend sending important documents directly to the recipient through a common telephone line.
- Telephones on a LAN cannot be used.
- It may take some time for a transmission to be sent due to Internet/ intranet traffic.
- Depending on the mail servers, it may not be possible to send documents with a large number of pages or a large amount of image data.

2-2. Functions that cannot use Network Applications

(1) Fax functions that can not be used.

- The following fax functions can be used by regular fax machines over a common telephone line, but can not be used with network applications.

Batch transmission	Bulletin board registration	Polling transmission
On-hook	Real-time transmission	Remote retrieval of bulletin board
Confidential box	Password transmission *	Remote copying *

*: These items are specified on the panel, but are not functional.

(2) Fax functions that can be used.

- The following fax functions can be used with network applications.

Image quality specification	2 in 1	Destination insert
Density specification	2-sided transmission	Forward the received facsimile documents (Document Management)
Non-reduction mode	TX marker stamp (optional)	Priority transmission
Scan area specification	TSI	Timer transmission
Time stamp		

- Precautions on Mail Delivery of Fax Documents

(3) Precautions for using IP Scanner

1. Using a dial-up router

- When using IP Scanner, ensure that the IP address of the main device is correctly specified.

Particular care is needed when using IP scanner on a network in which a dial-up router is used.

- If an incorrect IP address is specified in an environment where a dialup router is used, the dial-up router may unnecessarily be dialed up.

In addition, depending on the network environment of the computer, the dial-up router may be unnecessarily dialed up, regardless of whether the correct IP address was specified.

(4) Using a modem or terminal adapter

- If a computer with a built-in modem (or a computer connected to terminal adapter) is used, they may be used to dial up.

If this occurs, select either "Never dial a connection" or "Dial whenever a network connection is not present" in the "Dial-up settings" group box on the Connections tab of the Internet Properties dialog box. For details, refer to the instruction manual for the operating system.

3. Functional Overview of Cards Used

Cards that can be used in the Network Scan / Internet Fax & Network Scan / Printer have the following capabilities.

Card name	Functional overview
CLAN card	By connecting to the MFB3 card, network functions can be used.
Printer card	By connecting to the MFB3 card, printer functions can be used. Pi3505e: 32MB, Pi3505e/PS:128MB capacity.
Network scan card	By connecting to the MFB3 card, network scanner functions can be used. 128MB capacity.
Internet Fax & Network Scan card	By connecting to the MFB3 card, Internet Fax and Network Scan functions can be used. 128MB capacity.

3-1. CLAN Card

(1) Overview

- This circuit board comprises a network LAN interface and an extended PCI interface, made up of a USB1.1b interface and PCI bus interface, in order that the copier can be used as a PC printer.
- Network specifications (Ethernet): 10Base-T/100Base-TX
- Communications protocols: TCP/IP, SMTP, POP3, MIME, HTTP
- Connection method: Connection to CN7 on the MFB3 circuit board.

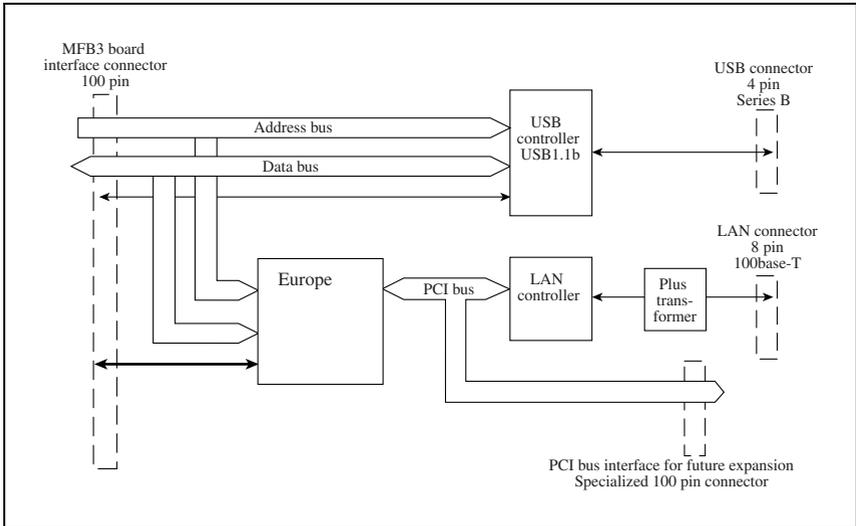
(2) Functions

1. USB1.1b interface
 - The USB connector is used so the copier can be used as a PC printer.
2. Network LAN interface
 - The network connector enables the copier to be used as a network scanner and network printer.
3. Extended PCI interface
 - Fitted with a PCI bus interface connector (specialized connector: 100pin) as a future extended interface.

(3) LED Indicators

LED	Condition	Meaning
Green	Lit	The LAN is connected correctly
	Off	Data may be sent or received. The copier has not been turned on. The LAN is not connected correctly.
	Flashing	Data is being sent or received.
Red	Lit	Operating at 100Mbps
	Off	Operating at 10Mbps

(4) Block Diagram

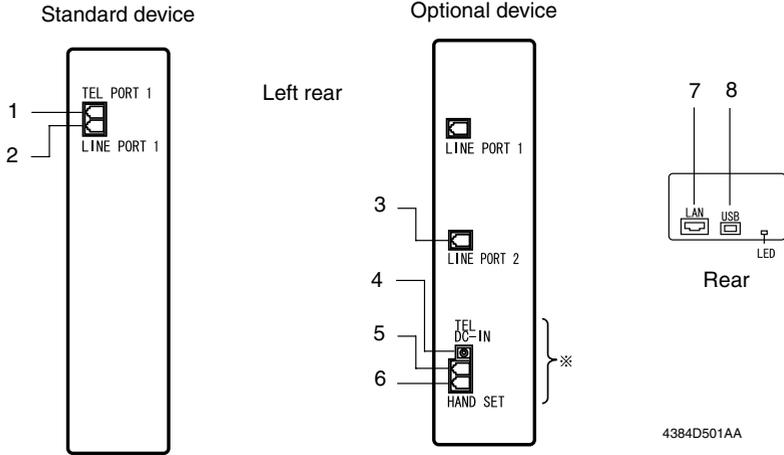


DIS/REASSEMBLY, ADJUSTMENT

1. Equipment Setup

1-1. Connection

- Connection with phone lines and other devices is as follows.



4384D501AA

No.	Name	Connected to:		Remarks
1	TEL PORT1	External telephone	Standard	Cannot be used when FAX/TEL switcher and handset installed
2	LINE PORT1	Telephone line (port 1)	Standard	
3	LINE PORT2	Telephone line (port 2)	Option	G3 multiport required
4	DC-IN	Optional power connector	Option	FAX/TEL switcher and handset required
5	TEL	External telephone	Option	
6	HAND SET	Handset	Option	
7	LAN	LAN cable connection	Option	External interface kit required
8	USB	Printer connection	Option	

2. Disassembly / Reassembly

When carrying out disassembly and reassembly, refer to the copier and controller service manuals.

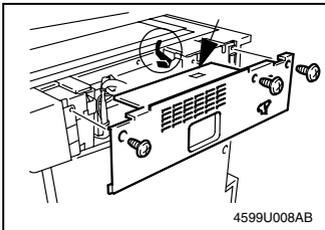
NOTE

- Before commencing, confirm that the storage memory capacity is at 0%.
 - If the memory storage capacity is not at 0%, either print out, or delete any data in the memory.
-

2-1. Detaching Parts

When detaching parts from network scanners, network interfaces, or printers, follow the procedure as follows:

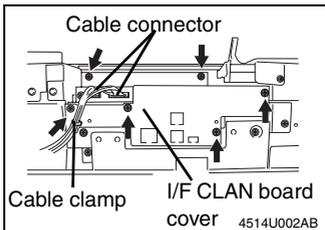
(1) Removing the main cover



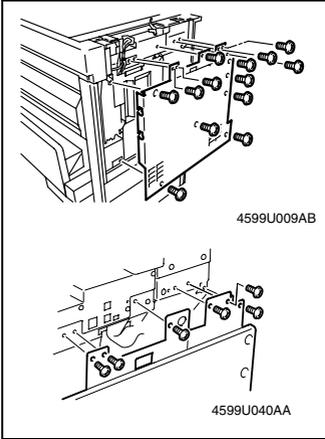
1. Remove the upper rear cover (3 screws).

NOTE

- When removing the cover, push in the ADF angle-detecting lever.
 - When fixing the cover, push the angle-detecting sensor lever through the hole in the upper rear cover.
-



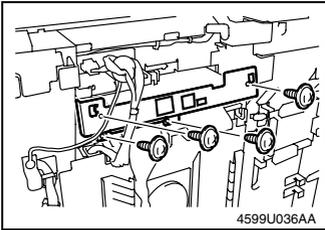
2. Remove the two cable connectors.
3. Remove the two cables from the cable of the clamps.
4. Remove the interface CLAN board cover (6 screws).



5. Remove the rear cover (13 screws).
(When removing, lift the cover slightly.)

NOTE

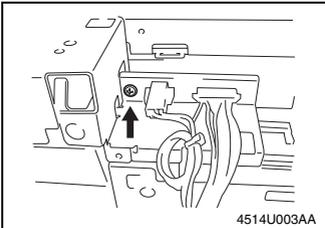
When fixing the cover, use gold colored screws in the six upper locations.



6. Remove the reinforcing plate (4 screws).

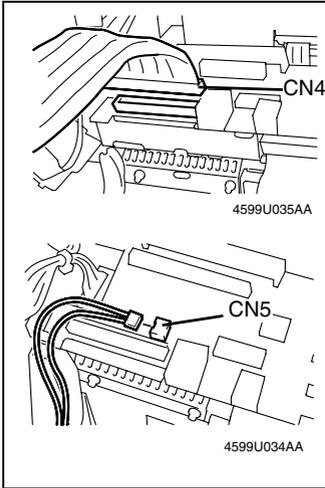
NOTE

Do not pinch the hard disk flat cable or power relay harness.



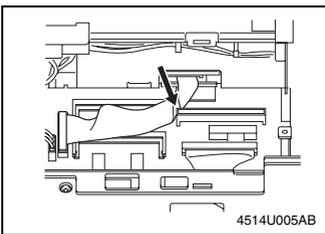
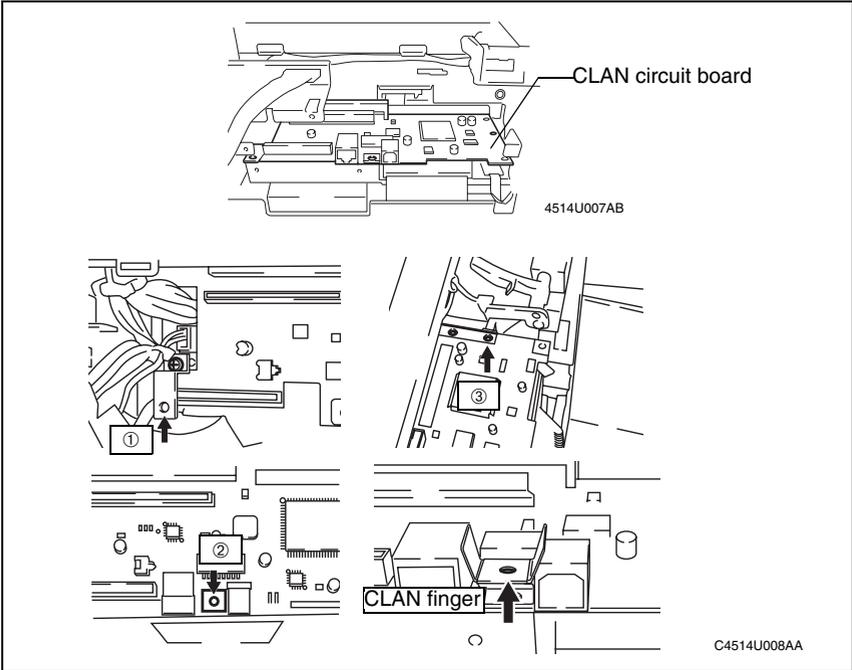
7. Remove the connector attachment plate (1 screw).

(2) Removing the CLAN Board

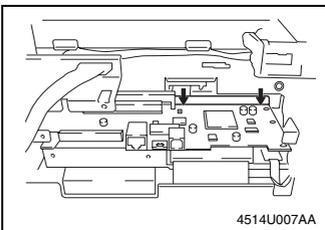


1. When the function expansion hard disk kit is removed, disconnect CN4 and CN5 from the CLAN board.

2. Remove the three screws.
 - * The screws in ② can be accessed by opening the document cover, and reaching between the scanner.
 - The screws in ③ also hold the CLAN finger.
 - Use a short screwdriver for screws in ② and ③.
3. Remove the CLAN board.

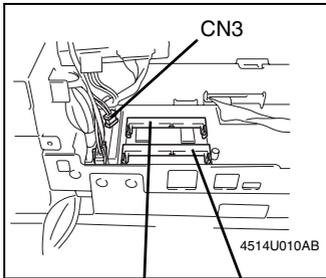


* When affixing the CLAN board, prior to this, make sure that the OPE cable is not covered by the connector for the CLAN circuit board.



* When affixing the CLAN board, push the two parts indicated with arrows and confirm that the connector is properly inserted (do not touch any soldered areas).

(3) Removing Expansion (Printer / Network Scan / Internet Fax & Network Scan) Board



Expansion 1 slot (CN4)
Expansion 2 slot (CN5)

1. With the Di3510f, Di3010f, Di2510f or Di2010f, disconnect the Ni-MH battery cable from CN3 on the MFB3 circuit board (in order to prevent damage to the memory IC).

NOTE

Disconnect the Ni-MH battery cable from CN3 on the MFB3 circuit board to stop power from being supplied to the expansion memory from the Ni-MH battery.

2. Remove the Printer Memory circuit board from the expansion slot 1 (CN4) on the MFB3 circuit board.
3. Remove the Network Scan circuit board and the Internet Fax & Network Scan circuit board from the expansion slot 2 (CN5) on the MFB3 circuit board.

NOTE

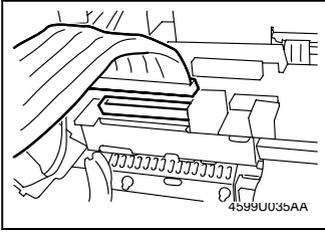
- Do not touch the terminals of the Printer circuit board with your bare hands.
- Check the installation direction (location of the notch), and then firmly insert the circuit board until it snaps into place.

* With the Di3510f, Di3010f, Di2510f or Di2010f, reconnect the Ni-MH battery cable to CN3 on the MFB3 circuit board.

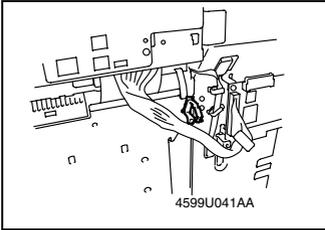
NOTE

If the cable is not reconnected, there will be no backup power in case of a power failure. Therefore, be sure to reconnect the battery cable.

(4) Removing the function expansion hard disk kit



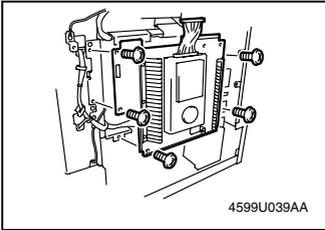
1. Remove the upper rear cover, the rear cover, the interface CLAN circuit board cover, the reinforcing plate, and the connector plate.
2. Remove the connector from CN4 on the CLAN circuit board.



3. Remove the unit's relay from the wire harness.

NOTE

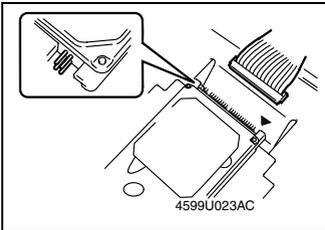
Harness types differ between the copier and the harness.



4. Remove the mechanism circuit board cover (5 screws).

NOTE

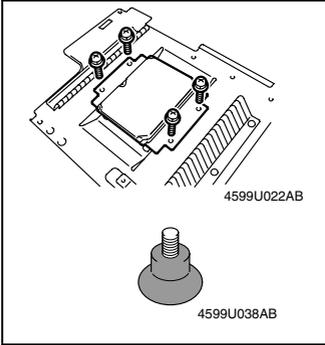
Do not pinch the harness on the right of the mechanism circuit board cover.



5. Remove the flat cable from the hard disk.
* When connecting the flat cable to the hard disk, connect with the ▼ as standard.

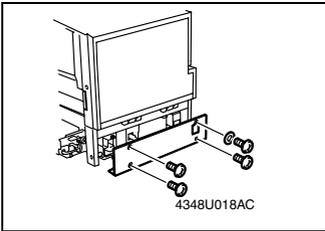
NOTE

- *Connect so that the yellow wire on the flat cable is at the left of the hard disk connector. (Up)*
 - *The 4 terminals on the left of the hard disk are to remain unused.*
-



6. Remove the hard disk from the mechanism circuit board (4 screws).
- * When affixing the hard disk to the mechanism circuit board, tighten until the bush at the back of the mechanism circuit board cover is as in the figure.

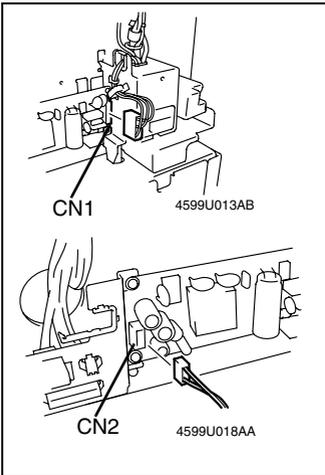
(5) Removing the function expansion hard disk power supply circuit board



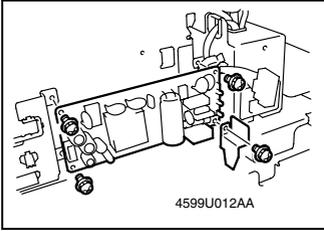
1. Remove the lower cover (4 screws).

NOTE

When fixing the hard disk, insert toothed washers into the top right of the lower rear cover.



2. Remove CN1 and CN2 from the connectors on the power supply circuit board.



3. Remove the power supply circuit board (4 screws).

2-2. Confirmation when Reassembling

(1) Confirm operation of the Printer Controller.

Press <Utilities> on the operations panel, and confirm that "Printer Settings" is displayed at the bottom left of the touch panel utility screen.

(2) Confirm operation of the Network Scan kit / Internet Fax & Network Scan kit.

Press <Utilities> on the operations panel, press "Management Administration", "Management Administration 2", and "Network Settings", and confirm that DNS settings is displayed.

* When configuring network settings, it is necessary to restart the printer.

DISPLAYS / SETTINGS

1. Touch Panel Display Confirmation

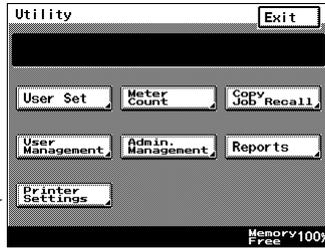
- Check the touch panel display settings as confirmation after service of this option.
- Where it is not displayed, repair the problem by referring to troubleshooting.

1-1. Printer unit / Network interface card

How to display confirmation of [Printer Settings].

1. Press the [Utility] key, and the Utility screen is displayed.

[Printer setting]
is displayed.



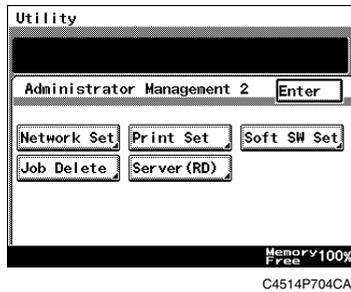
C4514P735CA

1-2. Network scanner kit / Network interface kit

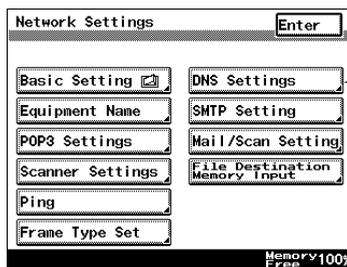
How to display confirmation of "Printer Settings".

1. Press the [Utility] key, and the Utility screen is displayed.
2. Touch [Admin. Management].
3. Input the Administrator code, and press [OK].
4. Touch [Admin 2].
5. Check that the [Network Set] key is displayed.

[Network Set] is
Displayed.



6. Touch [Network Set], and check that [DNS Settings] is displayed.



[DNS Settings] are
displayed.

2. Specification Parameters

- Network scanners and network interfaces have many specification and registration parameters. These can all be specified by the user.
- Network specifications are to be carried out by the user's network administrator.
- For details on specification parameters, refer to the user manual.

2-1. Required specification parameters for each model

(1) Explanation of specification parameters

Specification Parameters	Explanation
Basic Specifications	
DHCP	Specify whether an IP address is automatically assigned from a DHCP server, or whether a static IP address is specified.
IP address	Specify this copier's IP address. Only specify when "specify IP" is selected for DHCP.
Subnet Mask	Specify the subnet mask for the network to be connected. • Only specify when "specify IP" is selected for DHCP.
Gateway	Specify the default gateway address for the network to be connected. • Only specify when "specify IP" is selected for DHCP.
Device Domain Name	Specify this copier's domain name. Specification required when sending a direct fax through a mail server.
Network Port Settings	Specify the network port transmission speed.
DNS Settings	
DNS Settings	Specify whether to use DNS (Domain Name System) functions.
Host Name	Specify the DNS server host name. • Only specify when "Use" is selected for DNS settings.
Domain Name	Specify the DNS server domain name. • Only specify when "Use" is selected for DNS settings.
DNS Server Address	Specify the DNS server IP address. • Only specify when "Use" is selected for DNS settings.
Device Name	
Device Name	This device name is used as a part of the filename in Scan to E-mail transmission, Scan to Server transmission, Scan to PC transmission, Scan to HDD transmission, and Internet fax transmission. In addition, it is also used in the Subject field of Internet fax transmissions and scan to e-mail transmissions.
SMTP settings	<Transmission settings for Scan to E-mail and Internet fax transmissions (this is also used in Scan to FTP and Scan to HDD URL acknowledgements)>
SMTP Server Address	Specify the IP address or host name of the SMTP server. • The Host Name can only be specified when "Use" is selected for DNS settings.
E-mail Address	Specify this copier's e-mail address.
POP3 Settings	<Reception settings for Internet faxing>
POP3 Server Address	Specify the POP3 server's IP address or host name.
POP3 User Name	Specify the POP3 server's login name (account name).
POP3 Password	Specify the password to log into the POP3 server.
Automatic Mail Check	Specify the interval to connect to the POP3 server and check for mail (Internet fax).
Specify Priority Compression Level (mail mode)	<Specify the upper transmission size limit, upper transmission quality limit, and encoding format for when transmitting internet fax and IP address fax.>
Transmission Size (upper limit)	Specify the upper size limit for documents.
Transmission Quality (limit)	Specify the upper limit for transmission quality.
Encoding Format	Specify the encoding format for transmitted scan data.
Specify Priority Compression Level (scanner mode)	< Specify the file format and encoding format for when transmitting Scan to E-mail, Scan to Server, Scan to PC (FTP), Scan to PC (SMTP), and Scan to HDD.
File Format	Specify the file format for when transmitting scan data.
Encoding Format	Specified the encoding format for when transmitting scan data.
Specifications for sending and receiving scans	
Result Notification	Specify whether to notify of reception of Internet faxes.
Print Received Document Headers	When printing received Internet faxes, specify whether to print the mail headers.

Specification Parameters	Explanation
Insert Text in Transmitted Document	Specify whether to include an explanation that a file is attached in Internet faxes and Scan to E-mail.
Gateway Transmission	Specify whether there are direct fax transmission functions.
Subject Registration	Register the subject when transmitting Internet faxes and Scan to E-mail transmissions.
Binary Split Settings	Specify split settings for Internet fax, Scan to E-mail transmission
FTP Site Registration	<Specification required when using Scan to Server (FTP)>
Proxy Specification	<Specification required when connecting to an FTP server through a proxy server. This can only be specified in PageScope Light administrator mode>
Proxy Server	Specify the proxy server's IP address or host name.
Port Number	Specify the proxy server's port number.
FTP Server Timeout	Specify the FTP server connection timeout interval.
Frame Type Specification	<Specify the frame type for when using PC printer functions, for when connected to a NetWare server>
Ping	Used to check that the network (LAN connection) is correctly connected.

(2) Network Specifications List

- This lists the required specification parameters for when using network interface functions

Function Specification Parameters	Scan to E-mail	Scan to Server (FTP)	Scan to PC (FTP)	Scan to PC (SMTP)	Scan to HDD	IP Scanner	Internet Faxing	IP address Faxing	Delivery of a document received by fax	Network FAX
Basic Specifications										
DHCP	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
IP address	●	●	●	●	●	●	●	●	●	●
Subnet Mask	●	●	●	●	●	●	●	●	●	●
Default Gateway	●	●	●	●	●	●	●	●	●	●
Device Domain Name	—	—	—	—	—	—	—	—	—	○
Network Port Settings	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DNS Settings										
DNS Settings	▲	▲	▲	▲	▲	—	▲	▲	▲	—
Host Name	▲	▲	▲	▲	▲	—	▲	▲	▲	—
Domain Name	▲	▲	▲	▲	▲	—	▲	▲	▲	—
DNS Server Address	▲	▲	▲	▲	▲	—	▲	▲	▲	—
Device Name										
Device Name	○	○	○	—	○	—	○	—	○	—
SMTP Specifications										
SMTP Server Address	●	▲*1	—	—	▲*1	—	●	—	●	—
Port Number	●	▲*1	—	—	▲*1	—	●	—	●	—
E-mail Address	●	▲*1	—	—	▲*1	—	●	—	●	—

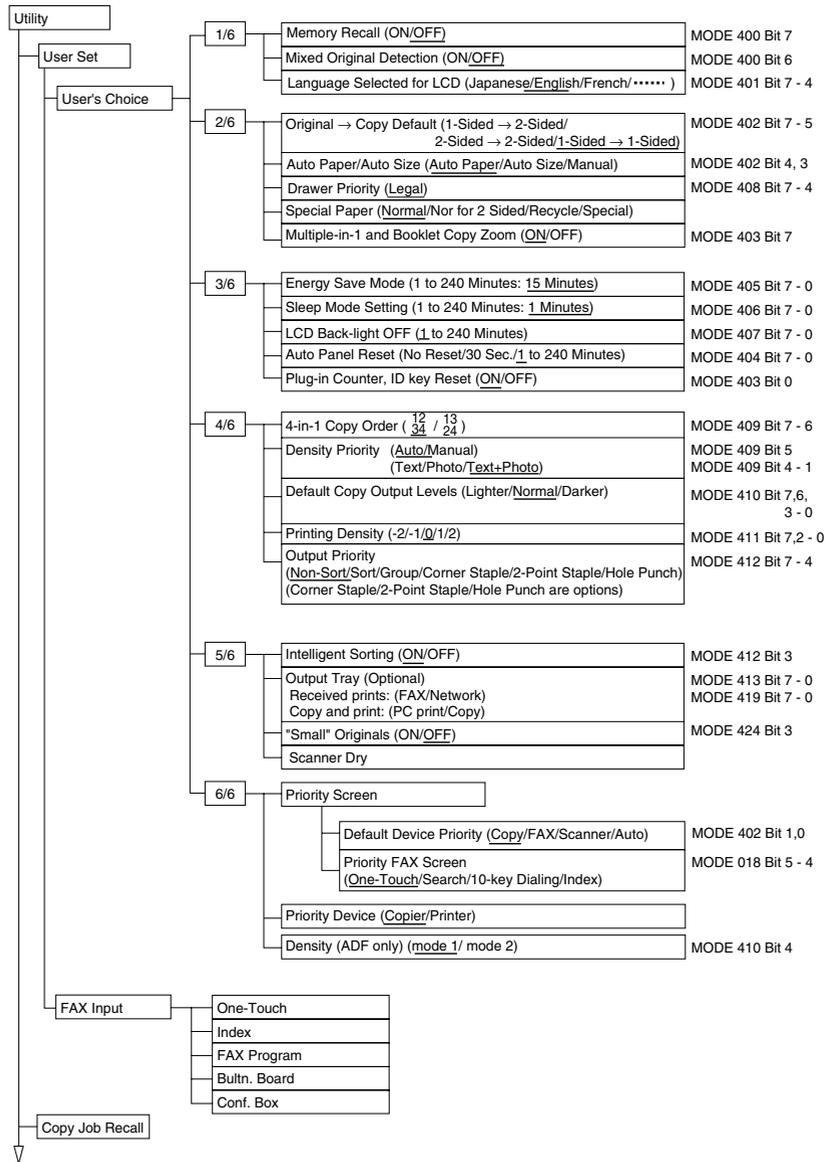
●: Essential items ○: Available items ▲: Required depending on environment
 —: Unnecessary

Function Specification Parameters	Scan to E-mail	Scan to Server (FTP)	Scan to PC (FTP)	Scan to PC (SMTP)	Scan to HDD	IP Scan- ner	Internet Faxing	IP address Faxing	Delivery of a document received by fax	Network FAX
POP3 Settings										
POP3 Server Address	—	—	—	—	—	—	●	—	—	—
Port Number	—	—	—	—	—	—	●	—	—	—
POP3 User Name	—	—	—	—	—	—	●	—	—	—
POP3 Password	—	—	—	—	—	—	●	—	—	—
Automatic Mail Check	—	—	—	—	—	—	●	—	—	—
Priority Compression Level										
Mail Mode	—	—	—	—	—	—	○	○	○	—
Scanner Mode	○	○	○	○	○	—	—	—	—	—
Specifications for sending and receiving scans										
Result Notifica- tion	—	—	—	—	—	—	○	—	—	—
Print Received Document Headers	—	—	—	—	—	—	○	—	—	—
Insert Text in Transmitted Document	○	—	—	—	—	—	○	—	○	—
Gateway Transmission	—	—	—	—	—	—	—	—	—	●
Subject Registration	○	—	—	—	—	—	○	—	—	—
Split Settings	○	—	—	—	—	—	○	—	—	—
FTP Site Registration										
FTP Site Registration	—	●	—	—	—	—	—	—	—	—
Ping										
Used to check that the network (LAN connection) is correctly connected. *An SMTP server or POP3 server can be specified and a ping transmitted. In addition, an arbitrary IP address specified, and a ping transmitted.										
Frame Type Specification										
Specify the frame type for when using PC printer functions, for when connected to a NetWare server.										
PageScope Light Administrator Mode: [Network] > [FTP Server] > [FTP Specifications]										
Proxy Server Address	—	▲	—	—	—	—	—	—	—	—
Proxy Port Number	—	▲	—	—	—	—	—	—	—	—
FTP Server Timeout	—	▲	—	—	—	—	—	—	—	—

*1: When using the URL notification functions, mail transmission (SMTP) settings must be configured.

3. Software Switches

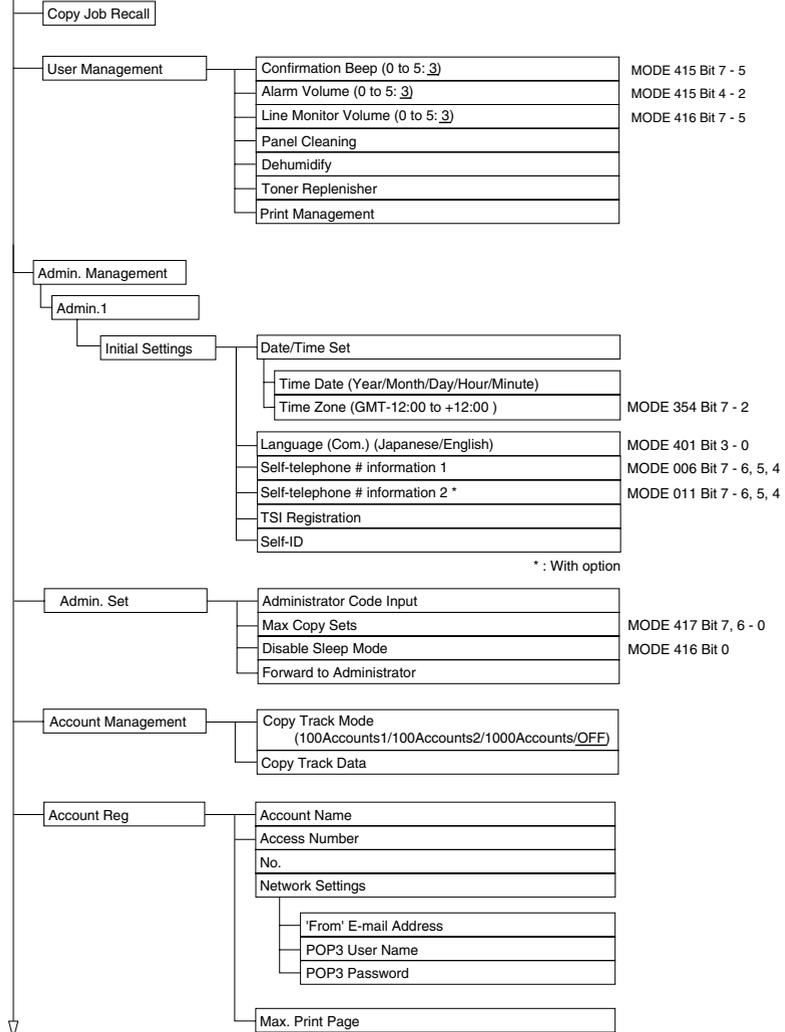
3-1. Software switches that can be changed by users (diagram).



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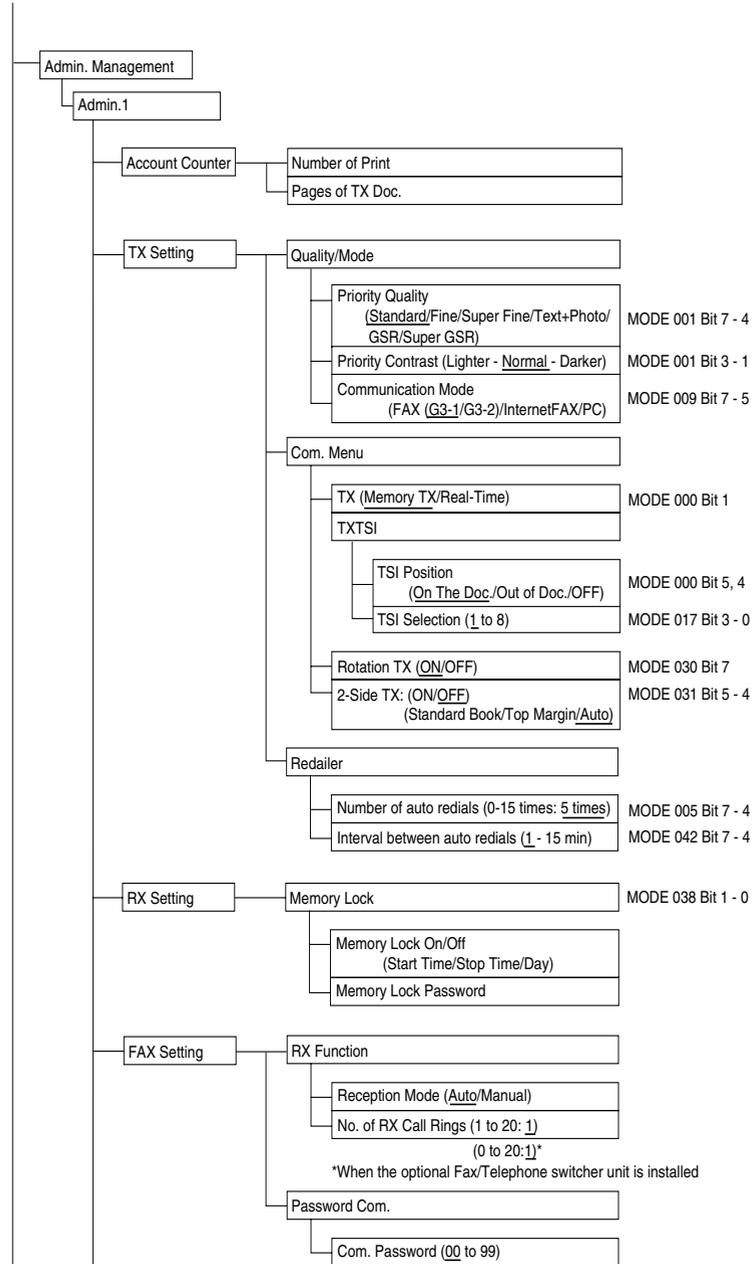
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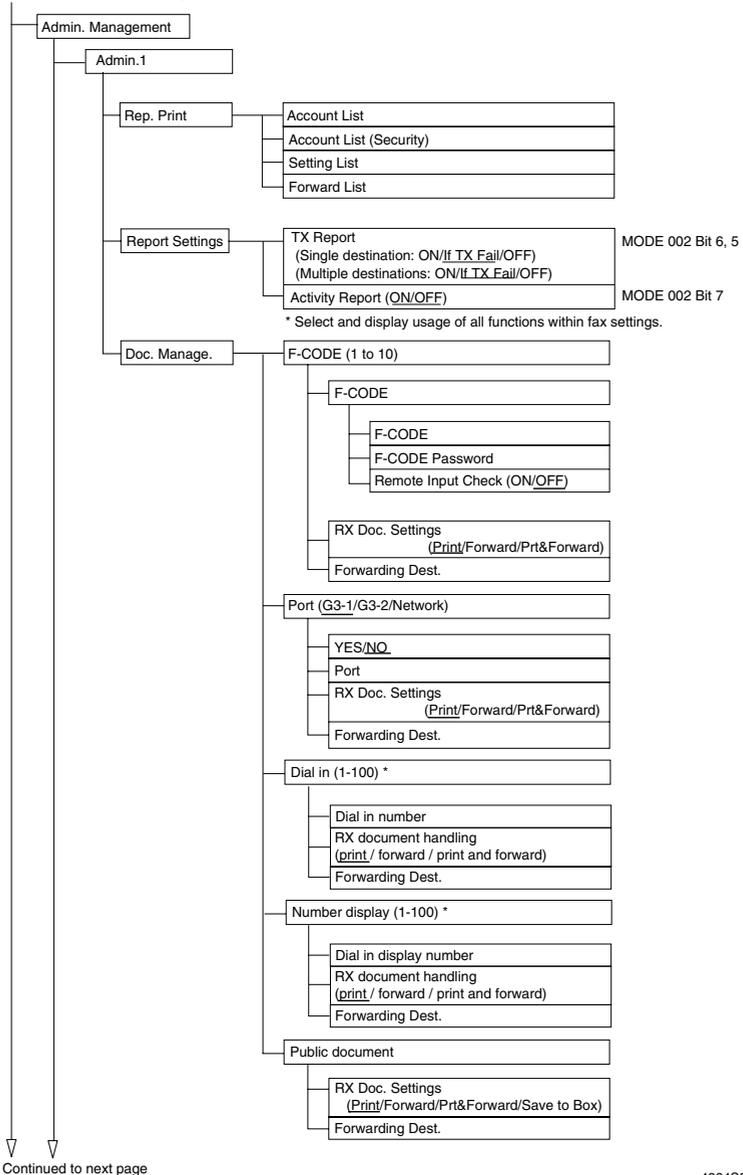


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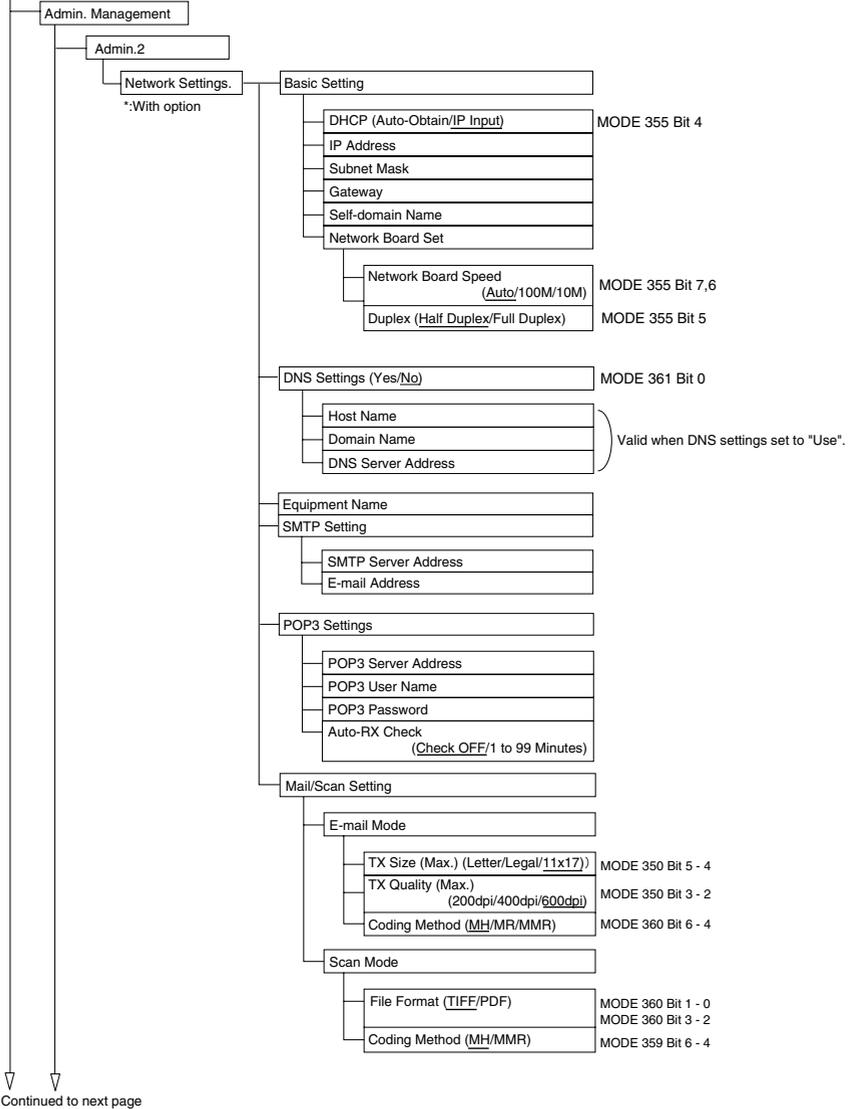
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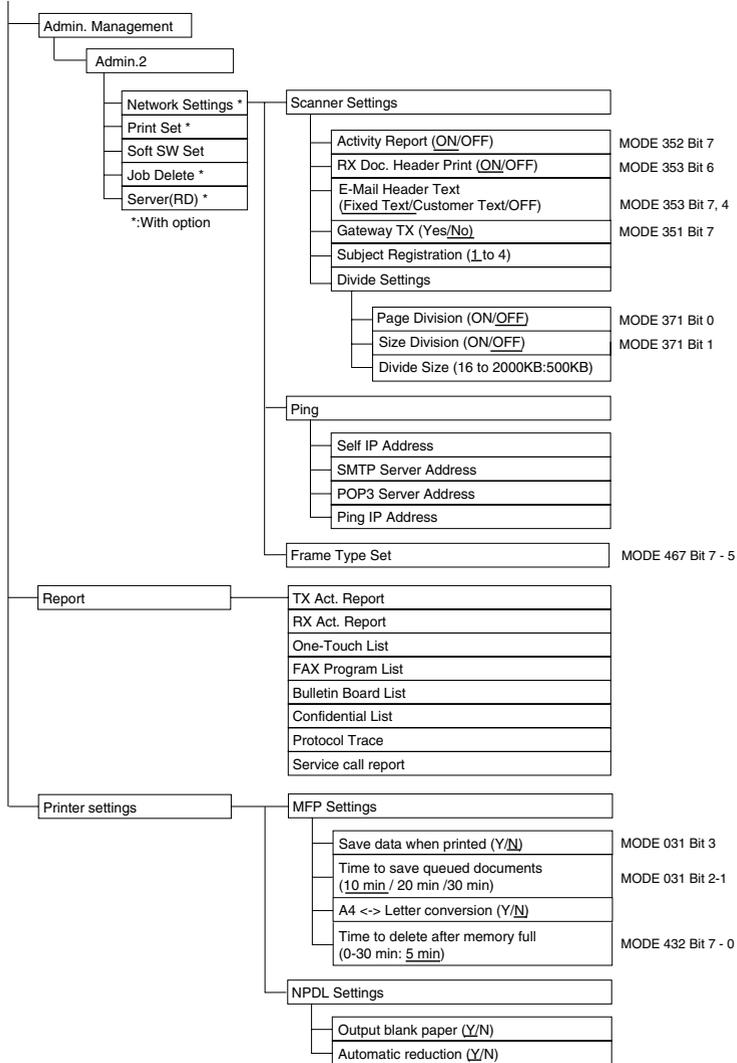
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3-2. Table of Default Values

NOTE

- This gives main details of software switch settings for printer / scanner / network modes.
- Do not change undefined HEX default values.
- * in the remarks column indicates modes that can be changed by the user.

Mode	HEX	Remarks
000	30	TX Marker, TSI, Password, Memory TX *
007	B5	Print range *
008	00	Paper selection *
030	B0	Rotate print, 2in1, Restrict print paper selection *
031	A1	Margins for multi-sheet report image, Margins for output format of report image *
033	14	Draft printing mode and level *
034	02	Cut print paper leading edge, Overlapped printing
035	03	RX by memory
036	01	RX print order
037	F8	Select FAX paper cassette *
038	0A	Turn on print lamp for out-of print paper, Print stop/start *
198	10	TX forwarding, TX forwarding result report
320	33	(PC printer) Around-the-clock monitoring timer
350	A8	Internet fax recipient functions, transmitted document with limits, density limits *
351	10	Gateway transmission *
352	80	Result notification *
353	88	Insert text in transmitted document, print received document header *
354	A8	Time zone specification *
355	20	LAN adapter and transmission speed specification, packet transmission specification *
356	40	SMTP transmission timeout *
357	40	SMTP reception timeout *
358	20	POP3 reception timeout *
359	00	E-mail transmission resend requests
360	80	Encoding for transmission using "extended" Internet fax recipient functions *
361	78	DNS functions *
363	20	Text page image quality, extended SMTP restriction settings
365	04	FTP timeout
366	08	Network maintenance screen display
367	20	DNS's query timeout setting
368	C2	Transmission management report CVS output, Password sharing *
369	00	PING timeout
370	FF	Number of times to retry mail transmission
371	40	Intervals between retrying mail transmission
372	0F	Mail split transmission interval *
373	08	Full mode functions *
374	40	NOTIFY specification *
375	20	SMTP transmission timeout (EP-NET) *
376	20	POP3 transmission timeout (EP-NET) *
377	00	SMTP reception standby port (upper) *
378	19	SMTP reception standby port (lower) *

Mode	HEX	Remarks
413	04	Specify output bin *
416	60	Sound volume setting disable auto shut off *
419	40	Output bin settings *
429	00	Auto reset of panel for ADF, Fan full speed rotation duration
431	00	Memory recall image deletion time
432	05	PC Printer, Over-memory wait time
452	00	PC Printer, A4 Letter conversion
455	2C	PC printer, Timeout set (Least significant 8 bits)
456	01	PC printer, Timeout set (Most significant 1 bit)
464	8C	PC printer, RAW port number set (Least significant 8 bits)
465	23	PC printer, RAW port number set (Most significant 8 bits)
467	00	PC printer, frame type set
468	0F	Passive mode, EP-NET server setting

3-3. Changing Software Switch Settings

- To change software switch settings, open the software switch settings screen.
- To open the software switch settings screen for printer/scanner/network settings, either open the settings screen from Tech. Rep. Mode, or open the settings screen from Maintenance Mode. Both procedures can be used to change settings.

(1) Opening the settings screen from Tech. Rep. Mode

1. Press the [Utility] key, and the Utility screen is displayed.



2. Touch [Meter Count] key.



3. Press the key below, and enter Tech. Rep. Mode.
Stop → 0 → 0 → Stop → 0 → 1



4. Touch [Soft Switch Settings] key.



5. Open the Software Switch Settings screen to configure switches.

(2) Opening the settings screen from Maintenance Mode

1. Press the [Utility] key, and the Utility screen is displayed.



2. Touch [Meter Count] key.



3. Press the key below, and enter maintenance mode.
Stop → 0 → 0 → Stop → 0 → 2



4. Touch [Maintenance Mode] key.



5. Touch [Soft Switch Set] key.



6. Open the Software Switch Settings screen to configure switches.

NOTE

- Tech. Rep. Mode and Maintenance Mode are not to be disclosed to users, therefore after work is completed, turnoff and restart the copier, and close each mode.
 - Output a service call report to verify that settings are correct.
-

(3) Opening the PC printer software switch settings screen

1. Press the [Utility] key, and the Utility screen is displayed.



2. Touch [Meter Count] key.



3. Press the key below, and enter maintenance mode.

Stop → 0 → 0 → Stop → 0 → 2



4. Touch [Admin. Management] key.



5. Type in the administrator access code (max. 8 digits).



6. Touch [Admin. 2].



7. Touch [Soft SW Set] key.



8. Open the Software Switch Settings screen to configure switches.

3-4. Software Switch Functions

(1) Table of printer / scanner / network function software switches

- This gives main details of software switch settings for printer / scanner / network functions.
- * with the function name indicates parameters that can be changed by the user.
*: Screen settings, **: Software switch settings
- Fields in black relief are default settings

Mode	Default Values									
000	Bit:	7	6	5	4	3	2	1	0	HEX:30
		0	0	1	1	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Stamping default of TX mark. **	OFF	ON	Specifies whether TX marker are return to ON or OFF after completing operations
6	Select position of TX marker. **	Top & bottom of doc.	Bottom of doc only	Specify location of TX marker (transmitted).
5	Default addition of TSI *	NO	YES	Specifies whether printing TSI on transmitted document is returned to ON or OFF after completing operations.
4	Select position of TSI *	Outside document	Inside document	Specify whether to place TSI outside or inside the document.
3	Specifies default confirming group password. **	NO	YES	Specifies whether confirming group password at TX is returned to ON or OFF after completing operations.
2	Confirm group password at RX. **	NO	YES	Specify whether to check group passwords at reception.
1	Transmission form default *	Memory stored	No storage	Specifies which TX method is returned to ON, memory-stored TX or no storage TX after completing operations. Memory transmission includes quick memory transmission.
0		Fixed		Settings changes restricted

Mode	Default Values									
007	Bit:	7	6	5	4	3	2	1	0	HEX:B5
		1	0	1	1	0	1	0	1	

Bit	Function Name	Setting		Description	
		0	1		
7-5	Select upper limit of cut-off length after printing. **	Bit 7-5:	000	0	When a received document is longer than the print paper and if the excess length is shorter than that specified here, it is cut off. (If it is longer than that specified value with these bits, it is split into multiple pages. For printing a received document, this feature is enabled only if when bit 1 of this mode is 1)
			001	8mm	
			010	12mm	
			011	14mm	
			100	18mm	
			101	20mm	
			110	24mm	
			111	Not available	
4-2	Select upper limit of reduction ratio of received document, **	Bit 4-2:	000	100%	When a received document is longer than the print paper, it will be reduced to fit the paper with the upper limit specified with these bits. (For printing a received document, this feature is enabled only if when bit 1 of this mode is 0) Example: The reduction is 100-90% when "90 %" is specified. Reduction will not be carried out if a received document is still longer than the paper for a specified reduction.
			001	95%	
			010	90%	
			011	85%	
			100	80%	
			101²	65%	
	110 ¹	60%			
	111	Not available			
1	Select cut off/reduction of received document: (This feature is enabled when printing a received document.) **	Reduction	Cut off	This bit specifies cutting off or reducing a received document that is longer than the print paper. This bit determines that the received document will be cut off with "Select upper limit of cut off length after printing (MODE 007 Bit7-5)" or reduced with "Select upper limit of reduction ratio of received document (MODE 007 Bit 4-2)."	
0	Printing specification of received document.	After reception of 1 page	After reception of all pages	Specifies the timing when to start printing the received document.	

Note. The features with (*) may be set by users. *: Screen settings, **: Soft switch setting

¹: North America

²: Outside North America

Mode	Default Values									
008	Bit:	7	6	5	4	3	2	1	0	HEX:00
		0	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Where to detect papers. (Valid only when printing a received document) **	From print paper	From cassette	Specifies how to detect print paper. "From print paper" detects print papers from actual print papers while "From cassette" indicates print papers with a cassette size or the last information on print papers regardless of actual print papers.
6-3	Select size of print paper for received document. (Valid only when printing a received document) **	Bit 6-3: 0000	Standard method 1	Specifies the size of a print paper for reception of documents. "Std method" determines an appropriate print paper for the length and the width of a print image. Method 1: Same width and no reduction. Method 2: Same width and minimum margin. Method 3: No reduction without considering width of paper. Method 4: Minimum margin without considering width of paper. "No wider width" will not take printer paper wider than the print image. Width 1: Same width and no reduction. Width 2: Same width and minimum margin. Width 3: No reduction without considering width of paper. Width 4: Minimum margin without considering width of paper. Same width only" selects paper with the same width as the print image. Note. • Margin means the non-printed area. • Methods 2 to 4 are unavailable to users.
		0001	Standard method 2	
		0010	Standard method 3	
		0011	Standard method 4	
		0100	Large widths prohibited Method 1	
		0101	Large widths prohibited Method 2	
		0110	Large widths prohibited Method 3	
		0111	Large widths prohibited Method 4	
		1000	Same width only	
	Other	Not available		
2-0		Fixed		Settings changes restricted

Mode	Default Values									
030	Bit:	7	6	5	4	3	2	1	0	HEX:B0
		1	0	1	1	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Rotation TX *	NO	YES	
6-5	FAX reception printing rotation transmission Y/N **	Bit6-5: 00	No rotate print	"Sort" means "alternate sort" here.
		01	Rotate print (without sort)	
		10	Rotate print (with sort)	
		11	Not available	
4	Receive 2in1 page. (Valid for RX print) **	NO	YES	
3-2	Restrict print paper selection	Bit 3-2: 00	No B5 L / A5 L / postcard	Specifies print paper (including orientation) that can not be selected for FAX.
		01	No A5 (L) postcard	
		10	No postcard	
		11	Not available	
1-0	Assign mixed mm/inch papers. (Priority Set) (Valid for RX print)	Bit 1-0 00²	Select mm only	
		01 ¹	Select inch only	
		10	Select both	
		11	Not available	

Note. The features with (*) may be set by users. *: Screen settings **: Soft switch setting
¹: North America
²: Outside North America

Mode	Default Values									
031	Bit:	7	6	5	4	3	2	1	0	HEX:A1
		1	0	1	0	0	0	0	1	

Bit	Function Name	Setting		Description	
		0	1		
7	Merge process for multiple copies of report with image margins.	NO	YES	Specify whether to carry out merge processing on multiple output merge reports. Valid when "Set margins for report image? (MODE 23 Bit 3)" is set to "Yes."	
6	Assign output format for image margin report.	Same as regular report	Always A5 format	1: Force output of A5 irrespective of print paper settings. Only effective if A4Y print paper is set in the paper cassette.	
5-4	Margin for 2-sided TX *	Bit 5-4:	00	Top margin	
			01	Standard book	
			10	Automatic	
			11	Not available	
3	Hold after re-print (PC print) *	NO	YES		
2-1	Selects holding time of reprint document. (PC print) *	Bit 2-1	00	10 min	Valid when "Presence of reprint function (MODE 031 Bit 0)" is set to "Yes."
			01	20 min	
			10	30 min	
			11	Not available	
0		Fixed		Settings changes restricted	

Mode	Default Values									
033	Bit:	7	6	5	4	3	2	1	0	HEX:14
		0	0	0	1	0	1	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7		Fixed		Settings changes restricted	
6	Initial setting of 2-sided TX *	NO	YES		
5-4	Select draft printing mode.	Bit 5-4:	00	No draft mode	"Toner saving mode" follows # of skipped pixels (Bit Nos. 3 to 2). "High resolution saving mode" in which each pixel's size will be reduced, follows # of skipped pixels (Bit Nos. 3 to 2) for only at points of transition between white-black along the direction of main scanning.
			01	Toner Save Mode	
			10	High resolution saving mode	
			11	Not available	
3-2	Select draft printing level.	Bit 3-2:	00	No skipping	Specifies skipped printing level for copy, RX, and report printing.
			01	Skip 1/4 pixel	
			10	Skip 2/4 pixel	
			11	Skip 3/4 pixel	
1-0		Fixed		Settings changes restricted	

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
034	Bit:	7	6	5	4	3	2	1	0	HEX:02
		0	0	0	0	0	0	1	0	

Bit	Function Name	Setting		Description	
		0	1		
7-4	Select cut-off length at leading edge of printing paper.	Bit 7-4:	0000	0 mm	Specify the amount of image data cut off at the leading edge when receiving an image. This switch valid only at RX printing.
			0001	2 mm	
			0010	4 mm	
			0011	6 mm	
			0100	8 mm	
			0101	10 mm	
			0110	12 mm	
			0111	14 mm	
			1000	16 mm	
			1001	18 mm	
			1010	20 mm	
			1011	22 mm	
			1100	24 mm	
	1101	26 mm			
	1110	28 mm			
	1111	30 mm			
3	Set special density.	NO	YES		
2		Fixed		Settings changes restricted	
1	Overlap printing.	NO	YES	Valid only at RX printing. Overlapped print is fixed to 4 mm regardless of line density.	
0		Fixed		Settings changes restricted	

Mode	Default Values									
035	Bit:	7	6	5	4	3	2	1	0	HEX:03
		0	0	0	0	0	0	1	1	

Bit	Function Name	Setting		Description
		0	1	
7-2		Fixed		Settings changes restricted
1	RX by memory when reaching I/C lifetime.	NO	YES	
0	RX by memory when reaching toner empty.	NO	YES	

Mode	Default Values									
036	Bit:	7	6	5	4	3	2	1	0	HEX:01
		0	0	0	0	0	0	0	1	

Bit	Function Name	Setting		Description
		0	1	
7-1		Fixed		Settings changes restricted
0	Specify RX (remote copy) print order.	Start printing after receiving first page.	Start printing after receiving all pages.	

Mode	Default Values									
037	Bit:	7	6	5	4	3	2	1	0	HEX:F8
		1	1	1	1	1	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Select FAX paper cassette (1st cassette). **	NO	YES	
6	Select FAX paper cassette (2nd cassette). **	NO	YES	
5	Select FAX paper cassette (3rd cassette). **	NO	YES	
4	Select FAX paper cassette (4th cassette). **	NO	YES	
3			Fixed	Settings changes restricted
2	Select FAX paper cassette (Bypath).	NO	YES	
1-0		Fixed		Settings changes restricted

Mode	Default Values									
038	Bit:	7	6	5	4	3	2	1	0	HEX:0A
		0	0	0	0	1	0	1	0	

Bit	Function Name	Setting		Description
		0	1	
7	Turn on print lamp when out-of-paper.	On when all cassettes are out of paper	On when at least one cassette is out of paper	
6-4		Fixed		Settings changes restricted
3-2	Print restart timer after stopping	Bit 5-4:	00	3 min
			01	5 min
			10	10 min
			11	20 min
1	Manual setting of print stop/start*	Stop	Start	
0	Print stop/start timer *	Does not function	Function	

Mode	Default Values									
198	Bit:	7	6	5	4	3	2	1	0	HEX:10
		0	0	0	1	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	TX forwarding	NO	YES	
6	TX forwarding of scanner function	NO	YES	
5-4	TX forwarding result report	Bit 7-6:	00	Not output
			01	Intermittent output
			10	Always output
			11	Not available
3-0		Fixed		Settings changes restricted

Note. The features with (*) may be set by users. **: Soft switch setting

Mode	Default Values									
320	Bit:	7	6	5	4	3	2	1	0	HEX:33
		0	0	1	1	0	0	1	1	

Bit	Function Name	Setting		Description	
		0	1		
7-4	PC printer Around-the-clock monitoring timer (t1)	Bit 7-4:	0000	No timeout	Time between commands. 10-minute steps
			0001	10 min	
			0010	20 min	
			0011	30 min	
			1111	150 min	
3-0	PC printer Around-the-clock monitor timer (t2)	Bit 3-0:	0000	No timeout	Time for creation between pages. 10-minute steps
			0001	10 min	
			0010	20 min	
			0011	30 min	
			1111	150 min	

NOTE

- Setting conditions of Mode 432 Bit Nos. 7 to 0 (PC Printer, Over-memory wait time (M)): Each time must be $t2 \geq t1 \geq M$.
- For example, when setting t2 and t1 each short, set a short time of PC printer over-memory wait time using Bit Nos. 7 to 0 in Mode 432.

Mode	Default Values									
350	Bit:	7	6	5	4	3	2	1	0	HEX:A8
		1	0	1	0	1	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7	Internet fax RX functions (Network functions) **	Standard	Extended	1. New registration of quick dial or one-touch dial for Internet fax recipients. 2. Sets default display for when specifying capabilities of the recipient, when using full dial recipient settings. Standard: Necessary functions defined as recommended (A4, 200 dpi or less, MH) Extended: Functions defined as options are recommended.	
6	POP3 before SMTP **	NO	YES		
5-4	Upper limit of TX document width for extended recipient functions (Network functions) *	Bit 5-4:	00	A4	The default upper limit of TX document width for when "Internet Fax Transmission Reception capabilities" is set to "Extended".
			01	B4	
			10	A3	
			11	Not available	
3-2	Upper limit of line density for extended recipient functions (Network functions) *	Bit 3-2:	00	200 × 200 dpi	The default upper limit of TX document line density for when "Internet Fax Transmission Reception capabilities" is set to "Extended".
			01	400 × 400 dpi	
			10	600 × 600 dpi	
			11	Not available	
1-0		Fixed		Settings changes restricted	

Note. The features with (*) may be set by users. *: Screen settings **: Soft switch setting

Mode	Default Values									
351	Bit:	7	6	5	4	3	2	1	0	HEX:10
		0	0	0	1	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7	Gateway TX (Network functions) *	NO	YES	Set Gateway TX (fax forwarding of e-mail TX documents) e-mail as either allowed / prohibited. When prohibited, SMTP RX will not operate.	
6-5	Port for Gateway TX (Network functions) *Only for devices that support multiport	Bit 6-5:	00	G3-1	Set port for fax forwarding from the Gateway TX (fax forwarding of e-mail TX documents).
			01	Not available	
			10	Not available	
			11	G3-2	
4			Fixed	Settings changes restricted	
3		Fixed		Settings changes restricted	
2	IP address fax reception prohibited	NO	YES		
1-0		Fixed		Settings changes restricted	

Actual ports are as follows:

G3-1, and G3-2 are in accordance with "Automatic Port Selection (MODE 006, Bit 1)".

Mode	Default Values									
352	Bit:	7	6	5	4	3	2	1	0	HEX:80
		1	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Result notification (Network functions) *	NO	YES	Specify whether to return a result notification to the sender, when sending e-mail and the error code E6XXXX is generated as a result of a transmission error.
6-0		Fixed		Settings changes restricted

Mode	Default Values									
353	Bit:	7	6	5	4	3	2	1	0	HEX:88
		1	0	0	0	1	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Insert text in transmitted document (Network functions) *	NO	YES	In Internet fax transmission, specify whether to insert text (fixed text string) before an image. *1 (Not applicable for SCAN to E-mail)
6	Print received document header (Network functions) *	NO	YES	In e-mail transmission, specify whether to print e-mail headers.
5		Fixed		Settings changes restricted
4	Insert optional text document *	NO	YES	
3	Optional text document image display	NO	YES	Outside North America, "NO"
2-0		Fixed		Settings changes restricted

*1: Text documents that can be inserted (Fixed text strings):

Image data (TIFF-F format) has been attached to the E-mail.

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
354	Bit:	7	6	5	4	3	2	1	0	HEX:A8
		1	0	1	0	1	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-2	Time zone specification: Set the time zone to be inserted in the header date field of e-mails to be sent (Network functions) *	Bit 7-2:		
		000000	GMT-12:00 (-1200)	
		000001	GMT-11:30 (-1130)	
		001110 ¹		
		011000 ²	GMT	
		101111	GMT+11:30 (+1130)	
1-0		Fixed		Settings changes restricted

Note. ¹: North America

²: Outside North America

Mode	Default Values									
355	Bit:	7	6	5	4	3	2	1	0	HEX:20
		0	0	1	1	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-6	10M/100M switch: LAN adapter and transmission speed specification (Network functions) *	Bit 7-6: 00		Auto negotiation
		01	100M fixed	Auto negotiation setting Automatically detect 10/BASE-T or 100/BASE-TX, and determine transmission speeds. 100MFixed: Specify fixed 100/BASE-TX 10MFixed: Specify fixed 10/BASE-T Valid after the power switch has been turned off and on.
		10	10M fixed	
		11	Not available	
5	Full duplex/Half duplex switch: Set packet transmission and reception for when using a switching hub connection (Network functions) *	Full duplex	Half duplex	
4	Automatically acquire IP address *	NO	YES	DHCP
3-0		Fixed		Settings changes restricted

*1: "100M fixed" and "10M fixed" need to be configured correctly in order for communication to take place. Check communications speeds with other devices, and configure.

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
356	Bit:	7	6	5	4	3	2	1	0	HEX:40
		0	1	0	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-4	SMTP transmission timeout (Network functions) **	Bit 7-4:	0000	Not available	Specify the time to wait for a response to a transmitted command from a scanner or SMTP mail server. Valid after the power switch has been turned off and on.
			0001	30 secs.	
			0100	120 secs.	
		1111	300 secs.		
3-0		Fixed		Settings changes restricted	

Mode	Default Values									
357	Bit:	7	6	5	4	3	2	1	0	HEX:40
		0	1	0	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-4	SMTP reception timeout (Network functions) **	Bit 7-4:	0000	Not available	Specify the time to wait for a command from a SMTP client. Valid after the power switch has been turned off and on.
			0001	30 secs.	
			0100	120 secs.	
		1111	300 secs.		
3-0		Fixed		Settings changes restricted	

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
358	Bit:	7	6	5	4	3	2	1	0	HEX:20
		0	0	1	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-4	POP3 reception timeout (Network functions) **	Bit 7-4:	0000	Not available	Specify the time to wait for a response to a transmitted command from a POP3 mail server in e-mail transmission. Valid after the power switch has been turned off and on.
			0001	1 × 30 secs.	
			0010	2 × 30 secs.	
			1111	10 × 30 secs.	
3-0		Fixed		Settings changes restricted	

Note. The features with (*) may be set by users. **: Soft switch setting

Mode	Default Values									
359	Bit:	7	6	5	4	3	2	1	0	HEX:00
		0	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	E-mail transmission resend requests (Network functions) *	Normal	Additional resend	For additional resend, resend as per MODE 370, 371 after the frequency as specified by the user.
6-4	Scanner Mode: Coding method for extended specifications (TIFF)	Bit 6-4:	000	MH
			001	MR
			010	MMR
			011	JBIG
			Other	Not available
3-0		Fixed		Settings changes restricted

Mode	Default Values									
360	Bit:	7	6	5	4	3	2	1	0	HEX:80
		1	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Mail RX (Network functions)	Prohibited	Allowed	Specify allowed / prohibited for (SMTP/POP3) mail RX
6-4	Encoding for transmission using "extended" Internet fax recipient functions (Network functions) *	Bit 6-4:	000	MH
			001	MR
			010	MMR
			011	JBIG
			Other	Not available
3-2	Coding method for PDF *	Bit 3-2:	00	MH
			01	Not available
			10	MMR
			11	Not available
			Other	Not available
1-0	Image data file format *	Bit 1-0:	00	TIFF
			01	PDF
			Other	Not available

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
361	Bit:	7	6	5	4	3	2	1	0	HEX:78
		0	1	1	1	1	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-1		0111100		Settings changes restricted
0	DNS functions *	NO functions	Functions	

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
363	Bit:	7	6	5	4	3	2	1	0	HEX:20
		0	0	1	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Text page image quality (Network functions)	400 dpi	200 dpi	Image quality settings for mail text Valid after the power switch has been turned off and on.
6	Extended SMTP restriction settings (Network functions)	Not prohibited	Prohibited	Specify whether to prohibit extended SMTP protocol. "Not prohibited": Extended SMTP valid Valid after the power switch has been turned off and on.
5	Specify "from" address for DSN report transmission. (Network functions)	Specify address	Do not specify address	Depending on the mail system, chain mail can be prevented by specifying the DSN reporting address.
4-0		Fixed		Settings changes restricted

Mode	Default Values									
365	Bit:	7	6	5	4	3	2	1	0	HEX:04
		0	0	0	0	0	1	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-0	FTP timeout (Network functions)	Bit 7-0:		Specify the timeout value for if there are no requests after completing FTP login. At timeout, forcible logout will occur.
		00000000	Not available	
		00000001	30 secs.	
		00000100	120 secs.	
		00001010	300 secs.	
		Other	Not available	

Mode	Default Values									
366	Bit:	7	6	5	4	3	2	1	0	HEX:08
		0	0	0	0	1	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Display network maintenance screen Y/N (Network functions)	NO	YES	
6	Scanner address input priority screen **	IP address	Domain Name	
5	Anonymous mail provisions **	NO	YES	Specify whether to set account information in the mail "from" field.
4	Limit mail file name length	NO	YES	
3	Western digits in file name	Last 2 digits	4 digits	
2-0		Fixed		Settings changes restricted

Note. The features with (*) may be set by users. **: Soft switch setting

Mode	Default Values									
367	Bit:	7	6	5	4	3	2	1	0	HEX:C0
		0	0	1	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-3	Time until a connection with the DNS server times out **	Bit 7-4:	00000	Not available
			00001	20 secs.
			00010	40 secs.
			00011	80 secs.
			00100	160 secs.
			00101	320 secs.
			00110	640 secs.
			Other	Not available
2-0		Fixed		Settings changes restricted

Mode	Default Values									
368	Bit:	7	6	5	4	3	2	1	0	HEX:C2
		1	1	0	0	0	0	1	0	

Bit	Function Name	Setting		Description
		0	1	
7	Transmission management report CVS output *	NO output	Output	Specify CVS output of transmission management report
6	Administrator / network Password sharing *	Do not share	Share	Do not share: Use the network password only Share: Use network and device passwords
5-2		Fixed		Settings changes restricted
1	Scanner transmission administration log (Transmission)	NO	YES	
0	Reception results administration from Network FAX	NO	YES	

Mode	Default Values									
369	Bit:	7	6	5	4	3	2	1	0	HEX:00
		0	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-3		Fixed		Settings changes restricted
2-0	PING timeout	Bit 1-0:	000	5 secs.
			001	10 secs.
			010	15 secs.
			011	20 secs.
			100	25 secs.
			101	30 secs.
			Other	Not available

Note. The features with (*) may be set by users. *: Screen settings, **: Soft switch setting

Mode	Default Values									
370	Bit:	7	6	5	4	3	2	1	0	HEX:FF
		1	1	1	1	1	1	1	1	

Bit	Function Name	Setting		Description	
		0	1		
7-0	Number of times to retry mail transmission (Network functions)	Bit 7-0:			Specify the number of additional retries after those specified by the user. "0 times" indicates that only the number of retries as specified by the user will be carried out.
			00000000	0 times	
			00000001	1 times	
			11111111	255 times	

Mode	Default Values									
371	Bit:	7	6	5	4	3	2	1	0	HEX:40
		0	1	0	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-5	Intervals between retrying mail transmission (Network functions)	Bit7-5:	000	10 min	Specify the interval between retrying mail transmission.
			001	15 min	
			010	20 min	
			011	25 min	
			100	30 min	
			Other	Not available	
4-2		Fixed		Settings changes restricted	
1	Binary split *	NO	YES		
0	Page split *	NO	YES		

Mode	Default Values									
372	Bit:	7	6	5	4	3	2	1	0	HEX:0F
		0	0	0	0	1	1	1	1	

Bit	Function Name	Setting		Description	
		0	1		
7-0	Mail split transmission interval **	Bit 7-0:			Specify the mail split transmission interval.
			00000000	Not available	
			00000001	1 secs.	
			00001111	15 secs.	
			11111111	255 secs.	

Note. The features with (*) may be set by users. *: Screen settings, **: Soft switch setting

Mode	Default Values									
373	Bit:	7	6	5	4	3	2	1	0	HEX:08
		0	0	0	0	1	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7	Full mode functions **	NO	YES		
6	MDN/DSN text output	NO	YES		
5-4		Fixed		Settings changes restricted	
3-0	MDN reply wait time	Bit 3-0:	0000	0 min	
			0001	5 min	
			0010	10 min	
			0011	15 min	
			0100	20 min	
			0101	30 min	
			0110	40 min	
			0111	50 min	
			1000	1 hour	
			1001	2 hours	
			1010	3 hours	
			1011	4 hours	

Mode	Default Values									
374	Bit:	7	6	5	4	3	2	1	0	HEX:40
		0	1	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	NOTIFY specification (SUCCESS)	NO	YES	The mail server has correctly processed the mail.
6	NOTIFY specification (FAILURE)	NO	YES	The mail server detected an error.
5	NOTIFY specification (DELAY)	NO	YES	The mail server could not process the mail immediately after reception.
4	SMTP reception MDN response request	YES	NO	
3-0		Fixed		Settings changes restricted

Mode	Default Values									
375	Bit:	7	6	5	4	3	2	1	0	HEX:20
		0	0	1	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-4	SMTP transmission timeout (EP-NET)	Bit 7-4:	0000	Not available	Specify the time to wait for a response to a transmitted command from a scanner or SMTP server in EP-NET transmission. Valid after the power switch has been turned off and on.
			0001	30 secs.	
			0010	60 secs.	
			0011		
			1010	300 secs.	
			Other	Not available	
3-0		Fixed		Settings changes restricted	

Note. The features with (*) may be set by users. **: Soft switch setting

Mode	Default Values									
376	Bit:	7	6	5	4	3	2	1	0	HEX:20
		0	0	1	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-4	POP3 transmission timeout (EP-NET)	Bit 7-4:	0000	Not available	Specify the time to wait for a response to a transmitted command from a scanner or POP3 server in EP-NET transmission. Valid after the power switch has been turned off and on.
			0001	30 secs.	
			0010	60 secs.	
			1010	300 secs.	
	Other	Not available			
3-0		Fixed		Settings changes restricted	

Mode	Default Values									
377	Bit:	7	6	5	4	3	2	1	0	HEX:00
		0	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-0	Specify SMTP reception standby port (upper) number *	Bit 7-0:		Network FAX, IP address fax reception.	
			00000000		0
			11111111		255

Mode	Default Values									
378	Bit:	7	6	5	4	3	2	1	0	HEX:19
		0	0	0	1	1	0	0	1	

Bit	Function Name	Setting		Description	
		0	1		
7-0	Specify SMTP reception standby port (lower) number *	Bit 7-0:		Network FAX, IP address fax reception.	
			00000000		0
			00011001		25
			11111111		255

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
413	Bit:	7	6	5	4	3	2	1	0	HEX:04
		0	0	0	0	0	1	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-6	Select FAX (G3-1) output bin *	Bit7-6:	00	1st Drawer	Specify a tray to where FAX (G3-1) documents are delivered when the finisher has been attached. Additional bin output" is valid only when the additional bin is attached.
			01	2nd Drawer	
			10	Additional bin output	
			11	Not available	
5-4	Select PC print output bin. *	Bit5-4:	00	1st Drawer	Specify a tray to where PC print is printed out when the finisher is attached. Additional bin output" is valid only when the additional bin is attached.
			01	Elevated drawer	
			10	3rd Drawer	
			11	Not available	
3		Fixed			Settings changes restricted
2	Select copy output bin *	Bin 1	Bin 2		Specify a bin to where copied document is delivered to when the job separator has been attached.
1	Fax (G3-1) output bin settings *	Bin 1	Bin 2		Specify a bin to where faxed (G3-1) document is delivered to when the job separator has been attached.
0	PC printer output bin settings *	Bin 1	Bin 2		Specify a bin to where PC print is delivered to when the job separator has been attached.

Mode	Default Values									
416	Bit:	7	6	5	4	3	2	1	0	HEX:60
		0	1	1	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-5	Select sound volume 3. (Monitor) *	Bit 3-1:	000	0 (no tone)	6 stage adjustment of line monitor Line monitor tone volume setting.
			001	1	
			010	2	
			011	3	
			100	4	
			101	5	
			Other	Not available	
4	Orientation of images when finisher is connected. *	Not facing each other	Facing each other		Sets the orientation of the image when a finisher is connected.
3-2		Fixed			Settings changes restricted.
1	Overseas scanner file format.*	TIFF	PDF		
0	Disable auto shut off. *	NO	YES		Setting that enables or disables to select "Disabled" setting for Auto Shut Off function.

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
419	Bit:	7	6	5	4	3	2	1	0	HEX:40
		0	1	0	0	0	0	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-6	Select a copy output bin. *	Bit 7-6:	00	1st Drawer	Specify a tray to where printed document is delivered to when the finisher is attached.
			01	2nd Drawer	
			10	Additional bin output	
			11	Not available	
5-4	Select a FAX (G3-2) output bin. *	Bit5-4:	00	1st Drawer	Specify a tray to where FAX (G3-2) document is delivered to when the finisher has been attached. Additional bin output" is valid only when the additional bin is attached.
			01	2nd Drawer	
			10	Additional bin output	
			11	Not available	
3-2	Select a FAX (network) output bin. *	Bit3-2:	00	1st Drawer	Specify a tray to where FAX (G3-2) document is delivered to when the finisher has been attached. Additional bin output" is valid only when the additional bin is attached.
			01	2nd Drawer	
			10	Additional bin output	
			11	Not available	
1	Select FAX (G3-2) output bin. *	Bin 1	Bin2	Specify a bin to where FAX (G3-2) document is delivered to when the job separator has been attached.	
0	Select FAX (network) output bin. *	Bin 1	Bin 2	Specify a bin to where FAX (network) document is delivered to when the job separator has been attached.	

Mode	Default Values									
429	Bit:	7	6	5	4	3	2	1	0	HEX:00
		0	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-6		Fixed		Settings changes restricted.
5	Autoclear (ADF)	NO	YES	Automatically reset values on the basic screen at completion of copying using the document feeder (ADF).
4-2		Fixed		Settings changes restricted.
1-0	Setting of time that fan spin at full speed.	Bit3-0:	00	20 secs.
			10	55 secs.
			10	10 min
			11	Not available

Mode	Default Values									
431	Bit:	7	6	5	4	3	2	1	0	HEX:00
		0	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-0	Time to hold memory call images	Bit 7-0:		
			00000000	OFF
			00000001	1 min
			1	
			00011110	30 min
		Other	Not available	

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
432	Bit:	7	6	5	4	3	2	1	0	HEX:05
		0	0	0	0	0	1	0	1	

Bit	Function Name	Setting		Description	
		0	1		
7-0	Wait time (M) at full memory of PC print *	Bit 7-0:		Wait time (M) at full memory of PC print. Set range: 0, 1 to 30 minutes (1-minute steps) PC print job is deleted when the wait time at full memory expires. Setting conditions of Mode 320 Bit Nos. 7 to 4 (Around-the-clock monitoring timer (t1)) and Bit Nos. 3 to 0 (Around-the-clock monitoring timer (t2)); Each time must be $t2 \geq t1 \geq M$.	
		00000000			Erase immediately
		00000001			1 min
		00000101			5 min
		00011110			30 min
Other		Not available			

Mode	Default Values									
452	Bit:	7	6	5	4	3	2	1	0	HEX:00
		0	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7	Change between A4 and letter size for PC printing *	NO	YES	
6-0		Fixed		Settings changes restricted.

Mode	Default Values									
455	Bit:	7	6	5	4	3	2	1	0	HEX:2C
		0	0	1	0	1	1	0	0	

Bit	Function Name	Setting		Description	
		0	1		
7-0	Select timeout timer (last 8 bits) for PC printing *	Bit 7-0:			
		00001010			10 secs.
		00001111			15 secs.
		00101100			300 secs.
11111111					
Other		Not available			

Mode	Default Values									
456	Bit:	7	6	5	4	3	2	1	0	HEX:01
		0	0	0	0	0	0	0	1	

Bit	Function Name	Setting		Description
		0	1	
7		Fixed		Settings changes restricted.
6-0	Select timeout timer (first 1 bit) for PC printing *	0	300 secs.	

Note. The features with (*) may be set by users. *: Screen settings

Mode	Default Values									
464	Bit:	7	6	5	4	3	2	1	0	HEX:8C
		1	0	0	0	1	1	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-0	Select RAW port number (last 8 bits).	Bit 7-0:		
			00000000	Not available
			00000001	1
			10001100	9100
		11111111	65535	

Mode	Default Values									
465	Bit:	7	6	5	4	3	2	1	0	HEX:23
		0	0	1	0	0	0	1	1	

Bit	Function Name	Setting		Description
		0	1	
7-0	Select RAW port number (first 8 bits).	Bit 7-0:		
			00000000	Not available
			00000001	1
			00100011	9100
		11111111	65535	

Mode	Default Values									
467	Bit:	7	6	5	4	3	2	1	0	HEX:00
		0	0	0	0	0	0	0	0	

Bit	Function Name	Setting		Description
		0	1	
7-5	Select frame type for PC printing*	Bit7-5: 000		AUTO-detect
			001	Ethernet-II
			010	802.2
			011	802.3
			100	SNAP
			Other	Not available
5-0		Fixed		Settings changes restricted

Mode	Default Values									
468	Bit:	7	6	5	4	3	2	1	0	HEX:0F
		0	0	0	0	1	1	1	1	

Bit	Function Name	Setting		Description
		0	1	
7	Passive Mode settings	OFF	ON	
6-0	Automatic arrival check EP-NET server setting	Bit3-0: 0000000		0 min
			0001111	15 min
			1111000	120 min
			Other	Not available

Note. The features with (*) may be set by users. *: Screen settings

TROUBLESHOOTING

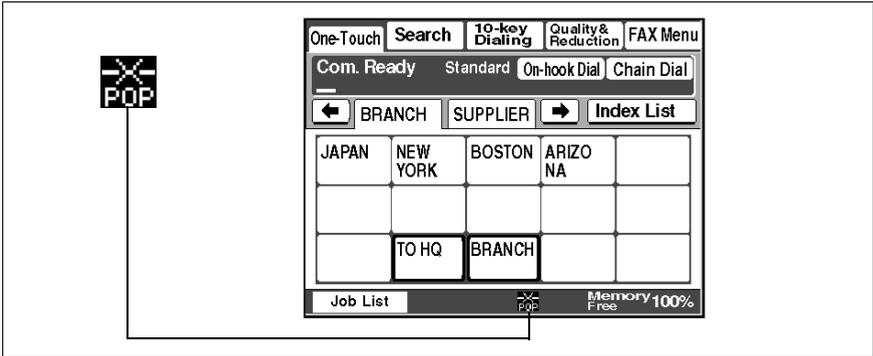
1. ALARM DISPLAY

POP3 Reception Errors Icon Display



No.	Condition	Cause	Action
1	If this icon appears in the status field at the bottom of the touch panel	POP3 reception failed from a certain user.	Check that the POP3 user name and POP3 password as specified in [Admin. Management 2], [Network Settings] screen are correct.

Example of POP3 reception error displayed on the operating screen



2. TRANSMISSION RESULTS ERROR CODES

- The following error codes appear in transmission activity report, reception activity report and the Job List screen.

2-1. Scan to Server (FTP) Transmissions

No.	Error Code	Cause	Action
1	ED2502	The LAN cable is not connected correctly or the transmission to the FTP server failed. Otherwise, an attempt was made to send the data to the wrong recipient.	Check that the LAN cable is correctly connected, and check that the FTP server address and port number and the proxy server address and port number settings are correctly specified.
2	ED2503	Login could not be completed because the user name or the password is incorrect.	Check the user name and password settings.
3	ED2504	The specified folder is incorrect.	Check the folder name setting.
4	ED2505	The FTP server disk is full.	Ensure that there is enough disk space.
5	ED2506	An error occurred while forwarding data to the FTP server.	Check that the LAN cable is correctly connected, and that transmission to the FTP server is possible.
6	ED2508	An error other than those listed above occurred with the FTP server.	Check that the FTP server can transmit.
7	EF2509	The memory has become full.	Change the resolution to "Fine" or "Standard".

2-2. Scan to PC (FTP) Transmissions

No.	Error Code	Cause	Action
1	ED2502	The LAN cable is not connected correctly or the transmission to the FTP server failed. Otherwise, an attempt was made to send the data to the wrong recipient.	Check that the LAN cable is correctly connected, and check that the FTP server address and port number and the proxy server address and port number settings are correctly specified.
2	ED2503	The user name or the password is incorrect.	Check the user name and password settings.
3	ED2505	The FTP server disk is full.	Ensure that there is enough disk space.
4	ED2506	An error occurred while forwarding data to the FTP server.	Check that the LAN cable is correctly connected, and that transmission to the FTP server is possible.
5	ED2508	An error other than those listed above occurred with the FTP server.	Check that the FTP server can transmit.
6	EF2509	The memory has become full.	Change the resolution to "Fine" or "Standard".

2-3. Scan to HDD Transmissions

No.	Error Code	Cause	Action
1	EF2509	The memory has become full.	Change the resolution to "Fine" or "Standard".
2	EF2510	The hard disk drive is full.	Delete some file from the hard disk drive, and then try sending again.

2-4. URL notification (with Scan to Server (FTP) and Scan to HDD transmissions)

No.	Error Code	Cause	Action
1	EF2502	A connection to the SMTP cannot be established.	Check the SMTP server address settings.
2	EF2506	An error occurred while forwarding data to the SMTP server.	Check that the LAN cable is correctly connected, and that transmission to the SMTP server is possible.
3	EF2508	An error other than those listed above occurred with the SMTP server.	Check that the SMTP server can transmit.
4	EF2509	The memory has become full.	Change the resolution to "Fine" or "Standard".

2-5. Internet Fax Transmissions / Scan to E-mail Transmissions

No.	Error Code	Cause	Action
1	E4DXXX	Since the SMTP server address is not specified, a connection to the mail server cannot be established.	Specify the SMTP server address.
2	E5AXXX	Since the DNS setting is incorrect, transmission is not possible.	Check the DNS settings.
3	E5DXXX	Since the e-mail address or e-mail address of the recipient is not specified correctly, transmission is not possible.	Check the settings and the e-mail address of the recipient.
4	E6FXXX	An attempt was made to send data that is too large to be sent.	Even though scanning may have finished, it may not be possible to send some documents. Change the resolution to "Fine" or "Standard".
5	EAXXXX	The LAN cable is not connected or the transmission to the SMTP server failed. Otherwise, an attempt was made to send the data to the wrong recipient address.	Check that the LAN cable is correctly connected, that transmission is possible to the SMTP server, that the network settings, such as the subnet mask, are correct, and that the recipient's e-mail address is correct.
6	EABF4F	Invalid POP3 before SMTP settings	Check Administrator Management POP server settings.
7	EABF50	Verification of POP3 before SMTP failed.	Check the POP3 account and password.

2-6. Internet Fax Reception

No.	Error Code	Cause	Action
1	E40XXX	Since the POP3 server address is not specified correctly, a connection to the mail server cannot be established. Otherwise, if the server is malfunctioning, a connection to the server cannot be established.	Check the POP3 server address. Check if the POP3 server is operating correctly.
2	E50XXX E51XXX E52XXX	Since the POP3 user name or password is either not specified or is incorrect, reception is not possible.	Check the settings.
3	E60XXX E61XXX	Data that cannot be printed was received through a POP3 reception. An attached file other than a TIFF-F file, text with a line that exceeds 1000 character or an e-mail with a large size was received. Otherwise, an e-mail message containing no data was received.	Check with the sender.
4	ECXXXX	The LAN cable is not connected or the transmission with the DNS server or POP3 server failed. Otherwise, the user name and password are not registered with the server or the settings in the copier are different.	Check that the LAN cable is correctly connected and check that the POP3 server settings are correctly specified. Additionally, check that the DNS settings are correctly specified.

2-7. Scan to PC (SMTP) Transmissions

No.	Error Code	Cause	Action
1	EAXXXX	The IP address specified by the sender is incorrect.	The sender should specify the correct IP address.
		The PC with the sender IP address is not turned on.	Turn the PC on, and check that ImageReceiver is started.
		ImageReceiver is not started on the PC with the IP address of the sender.	Start ImageReceiver.
		The PC with the sender IP address is receiving a transmission from another network device.	Transmit after reception is completed.
		ImageReceiver settings on the PC with the sender IP address have a network device with a different IP address set.	The IP address of the sender network device is static. If this must be changed from the current device, erase the IP address specified in ImageReceiver, and then quit and restart ImageReceiver.
		The IP address of the sender is not specified correctly with settings from ImageReceiver.	Erase the IP address specified in ImageReceiver, and then quit and restart ImageReceiver.
		ImageReceiver on PC with the sender IP address is not operating correctly.	Restart the computer. Re-install IP Scanner. Delete the TCP/IP service on the computer, reinstall, and reconfigure.
		The LAN cable is not connected.	Reinsert the LAN cable.
		The network between the computer with the sender IP address and the network device is not responding.	Check that there are no problems with the network settings for the PC and network device.
		The network settings on the PC with the sender IP address are incorrect.	Correctly configure the TCP/IP settings on the computer.
		The network port on the PC with the sender IP address is malfunctioning.	Replace the network port or the PC.
		The hub is not turned on.	Turn the hub on.
		A crossover network cable is not being used for a peer-to-peer connection.	Use a crossover network cable.
		The LAN cable is damaged.	Replace the LAN cable.
		The network load on the sender's computer is too high.	Check that large e-mail messages are not being sent from the sender's computer and that large files are not being downloaded from the Web.
Too much data is being sent, causing a malfunction in the computer.	If a high scanning resolution has been specified, reduce the pages and scan again.		

2-8. IP Scanner

No.	Error Code	Cause	Action
1	EAXXXX	The PC with the sender IP address is not turned on.	Turn the PC on, and check that ImageReceiver is started.
		ImageReceiver is not started on the PC with the IP address of the sender.	Start ImageReceiver.
		The PC with the sender IP address is receiving a transmission from another network device.	Transmit after reception is completed.
		In ImageReceiver settings on the PC with the sender IP address, a network device IP address other than that specified as the destination is set.	The IP address of the sender network device is static. If this must be changed from the current device, erase the IP address specified in ImageReceiver, and then quit and restart ImageReceiver.
		There are invalid ImageReceiver settings on the PC with the sender IP address.	Delete the IP address in ImageReceiver settings, and then quit and restart ImageReceiver.
		ImageReceiver on the PC with the sender IP address is not operating correctly.	Restart the PC. Alternatively, uninstall and then reinstall IP scanner. Delete the TCP/IP service on the computer, reinstall, and reconfigure.
		The LAN cable is not connected.	Reinsert the LAN cable.
		The network between the computer with the sender IP address and the network device is not responding.	Check that there are no problems with the network settings for the PC and network device.
		The network settings on the PC with the sender IP address are incorrect.	Correctly configure the TCP/IP settings on the computer.
		The network port on the PC with the sender IP address is malfunctioning.	Replace the network port or the PC.
		The hub is not turned on.	Turn the hub on.
		A crossover network cable is not being used for a peer-to-peer connection.	Use a crossover network cable.
		The LAN cable is damaged.	Replace the LAN cable.
		The network load on the sender's computer is too high.	Check that large e-mail messages are not being sent from the sender's computer and that large files are not being downloaded from the Web.
Too much data is being sent, causing a malfunction in the computer.	If a high scanning resolution has been specified, reduce the pages and scan again.		

2-9. Direct Fax Transmission (Gateway transmissions)

No.	Error Code	Cause	Action
1	E53XXX	Since the recipient specified for gateway transmission is incorrect, transmission is not possible.	Check the sender.
2	E65XXX	An attempt was made to send data that cannot be sent through a gateway transmission. An attempt was made to send an e-mail message with a file attachment in a format other than TIFF-F or with text where one line exceeds 1000 characters.	Check the sender.
3	EBXXXX	Data sent through a gateway transmission cannot be received.	Check that the mail server can transmit and that the network settings are correct.

3. TROUBLESHOOTING FUNCTIONS

3-1. Internet fax Transmissions / Scan to E-mail Transmissions

No.	Condition	Cause	Action
1	Transmission is not possible.	The connections are incorrect.	<ul style="list-style-type: none"> Check the LAN cable. (Check if it is Category 5) Check the LED indicator on the hub, and check the connections.
		A user logged in with their account access code and tried to send data when no e-mail address is specified for that account.	Register an e-mail address for the account that is logged in.
		The settings necessary for the device are not registered.	Specify the necessary network settings.
		The LAN cable is damaged.	Replace the LAN cable.
		Other causes.	Touch the [Com.] button on the Job List screen to check the details of the transmission error, and then refer to the table of error codes.
2	Transmission is possible, but the image cannot be outputted at the recipient's terminal or computer.	The recipient's terminal is not able to handle the sent image.	Change the size, resolution and coding method so that they are supported by the recipient's terminal, and then try sending the data again.
		The document text was not inserted when the data was sent.	With some e-mail applications, if an e-mail is received containing no text and only an attached file, it may not be possible to open the attached file. Therefore, text should be inserted into the document that is sent.
3	An interruption in the transmission was specified, but the transmission was not interrupted.	It takes some time to interrupt an Internet fax transmission.	Wait until the transmission is interrupted.

3-2. IP Address Fax Reception

No.	Condition	Cause	Action
1	Transmission is not possible.	The connections are incorrect.	Check the LED indicator on the hub, and check the connections.
		Since the image data is too large, a timeout occurred at the receiving end.	<ul style="list-style-type: none"> Increase the timeout setting on the receiving end. Decrease the size of the image data, and then try sending it again.
		The settings necessary for the device are not registered.	Specify the necessary network settings.
		The LAN cable is damaged.	Replace the LAN cable.
		Other causes.	Touch [Com.] on the Job List screen to check the details of the transmission error, and then refer to the table of error codes.

3-3. Internet Fax Reception

No.	Condition	Cause	Action
1	Reception is not possible.	The connections are incorrect.	Check the LED indicator on the hub, and check the connections.
		The setting to not automatically check for new e-mail messages has been specified.	Specify a time interval for automatically checking for new e-mail messages.
		The settings necessary for the device are not registered.	Specify the necessary network settings.
		The same POP3 user name is being used by a different e-mail application or another user.	Do not use the same POP3 user name that is used by a different e-mail application.
		The LAN cable is damaged.	Replace the LAN cable.
2	The data is received, but not printed.	An e-mail message with data of an incompatible format attached or with no data was received.	Ask the sender to send a TIFF-F file or text.
		The setting to print received documents has not been specified.	In order to print received documents, select the setting to print received documents.
		The memory is full.	Print saved documents and reduce the amount of memory that is used, and then ask the sender to send the data again.
		Other causes.	Touch the [Corn.] button on the Job List screen to check the details of the transmission error, and then refer to the table of error codes.
3	Binary code data was received (printed)	Data in a format other than MIME is attached or the mail was received through a server that is not compatible with MIME.	If data in a format other than MIME is attached, the binary codes are printed as is as text. (This is not a device malfunction) Ask the sender to send MIME format data as.
4	The same document is received many times.	Since the size of the mail is too large, the connection with the server times out while the data is being received.	Specify that the data be kept on the computer, and delete the corresponding e-mail messages from the server. Ask the sender to try sending e-mail messages of smaller sizes.
5	An interruption in the reception was specified, but the reception was not interrupted.	It takes some time to interrupt an Internet fax reception.	Wait until the transmission is interrupted.
6	The POP3 reception error icon does not disappear.	After the previous POP3 reception failed, a POP3 reception operation has not been performed since the time until the next automatic check for new messages has not elapsed.	Once the POP3 reception error icon appears, it does not disappear until a reception is completed successfully. Reduce the time until the next automatic check for new messages and check that a POP3 reception is completed successfully.

3-4. Distribution of Fax Documents

No.	Condition	Cause	Action
1	The recipient could not accept the mail transmitted using a PB tone.	The sender is not sending a PB tone signal.	Request that the sender configure their device to send a PB tone.
		PB tone timing is wrong.	Adjust the PB tone timing to match the pause after the response signal.
		The secondary dial settings are set to "No"	Set the secondary dial settings to "Yes"
2	Mail delivery was attempted, but transmission failed.	An e-mail address for the account specified in mail distribution is not registered.	E-mail address settings are required for mail transmission. Register an e-mail address for the department specified for mail transmission.
3	Mail is delivered from a network device, but is not delivered to its forwarding destination.	There is a mistake with the forwarding address.	Check the forwarding destination mail address registered as a one-touch key.
		Other causes.	An error message may have been sent back to an account e-mail address set for mail delivery. Check the contents of the error mail.

3-5. Scan to PC (SMTP) Transmission

No.	Condition	Cause	Action
1	Transmission is not possible.	Refer to the transmission error codes to establish the cause.	Touch the [Com.] button on the Job List screen to check the details of the transmission error, and then refer to the table of error codes.
		The LAN cable is damaged.	Replace the LAN cable.
2	The data is not received by the computer.	Refer to the transmission error codes to establish the cause.	Touch the [Com.] button on the Job List screen to check the details of the transmission error, and then refer to the table of error codes.
3	The data was received, but the image cannot be viewed.	IP Scanner has not started up.	Start up IP Scanner, check for new messages, and then replace the received data file with the image file.
		An application that allows images to be viewed is not installed, or the application is installed, but is not linked to images.	Install a viewing application. Link the file to a viewing application that allows you to view TIFF and PDF files.
		An error occurred while the image is converted by IP Scanner or the file was not created correctly.	That file is unusable. Close ImageReceiver, and then start it up again and send the scan again. If the image resolution is high, lower it before scanning it, or reduce the number of pages before scanning it.
4	Transmission from a terminal or reception to a computer cannot be interrupted.	It takes some time to interrupt the operation.	Wait until the operation is interrupted. To interrupt the operation quickly, close ImageReceiver. However, data already received at the computer but not yet processed with IP Scanner will be deleted.

3-6. IP Scanner

No.	Condition	Cause	Action
1	Transmission is not possible.	Refer to the transmission error codes to establish the cause.	Touch the [Com.] button on the Job List screen to check the details of the transmission error, and then refer to the table of error codes.
		ImageReceiver is not configured correctly.	Check ImageReceiver settings.
		The LAN cable is damaged.	Replace the LAN cable.
2	The data is not received by the computer.	Refer to the transmission error codes to establish the cause.	Touch the [Com.] button on the Job List screen to check the details of the transmission error, and then refer to the table of error codes.
		Another mailer is started up.	Close the mailer.

No.	Condition	Cause	Action
3	The data was received, but the image cannot be viewed.	IP Scanner has not been started.	Start up IP Scanner, check for new messages, and then replace the received data file with the image file.
		An application that allows images to be viewed is not installed, or the application is installed, but is not linked to images.	Install a viewing application. Link the file to a viewing application that allows you to view TIFF and PDF files.
		An error occurred while the image is converted by IP Scanner or the file was not created correctly.	That file is unusable. Close ImageReceiver, and then start it up again and send the scan again. If the image resolution is high, lower it before scanning it, or reduce the number of pages before scanning it.
4	Transmission from a terminal or reception to a computer cannot be interrupted.	It takes some time to interrupt the operation.	Wait until the operation is interrupted. To interrupt the operation quickly, close ImageReceiver. However, data already received at the computer but not yet processed with IP Scanner will be deleted.
5	The message "Failed to connect to machine" appears.	The copier has not been turned on.	Turn the copier on.
		There is a disconnected LAN cable, or other malfunction in the network.	Check the LAN cable connection.
		The IP address for the device that inputs into IP Scanner is incorrect.	Correct the IP address.
		The TCP/IP setting for the computer is incorrect.	Check the network settings on the computer.
		The computer is not connected to a network.	Check the network connections for the computer.
		The LAN cable is not connected.	Check that the LAN cable is correctly connected.
6	The message "Startup Failure with ImageReceiver. Do you want to start ImageReceiver" appears.	ImageReceiver did not start up.	Start up ImageReceiver.
		ImageReceiver is not operating correctly.	Restart the computer.
		Two LAN boards are installed.	This two LAN boards may not be installed.
7	The message "ImageReceiver detected a conflict with xxx" appears.	Other software is using this port.	<ul style="list-style-type: none"> The mail server and IP Scanner cannot be used together. Do not start up the mail server. In addition, if other software is the cause, close that software that causing the problem. Follow the instructions to change the port.
8	The message "Connection Failure with ImageReceiver" appears.	IP Scanner or ImageReceiver is not operating correctly.	Restart the computer. If the problem is still not resolved, uninstall IP Scanner, and then install it again.

No.	Condition	Cause	Action
9	The message "Failed to create image files" appears.	The received data is unusable.	Close ImageReceiver, and then, after starting it up again, perform the scan transmission again. When ImageReceiver is closed, received data that has not yet been processed with IP Scanner will be deleted.
		A high load was temporarily placed on the computer.	While receiving the scan transmission image, complicated processes cannot be performed by the computer.
		The file size of the received data is too large.	The received data may have exceeded the amount that can be used by that computer. Decrease the resolution before scanning and sending again, or decrease the number of pages before scanning and sending again.
		There is no storage directory.	Create a directory.
		The directory is read-only.	Allow the directory to be written.
10	The message "Selected Scanner key not found" appears.	The button has already been erased from the copier.	Check if the button has already been erased from the copier, and then reprogram a scanner button.
11	Even though the button on the device has been erased, the icon that indicates that transmission can be performed has not changed to an icon for programming a scanner button.	Delete the scanner button from the device. Otherwise, turn the copier off, then on again.	Click the [Delete Scanner Key] button.
12	Even though the [Check now] button is clicked, nothing happens.	No file was received.	Scan the document again.
13	The image file can not be opened.	The file is not an image file received from the device.	Use a viewer compatible with TIFF and PDF files.
14	The image file is not displayed correctly.	Display the image in the viewer at a reduced size.	View the image at a zoom ratio of 100%.
		The received data is unusable.	Scan the document again.
15	IP Scanner cannot be started up.	TCP/IP is not ready.	Open Network and Dial-up Connections in Windows, add the Microsoft TCP/IP protocol, and then restart the computer.
		IP Scanner is already started up.	Do not try to run multiple copies of the application.

No.	Condition	Cause	Action
16	ImageReceiver cannot be started up.	TCP/IP is not ready.	Open Network and Dial-up Connections in Windows, add the Microsoft TCP/IP protocol, and then restart the computer.
		Since ImageReceiver was started up during the previous uninstallation, then reinstalled without restarting the computer, ImageReceiver may have been deleted after restart.	Uninstall IP Scanner, then reinstall the software.
17	The message "Number of Scanner keys has reached maximum" appears.	6 buttons are registered in IP Scanner on the device.	Delete any unnecessary buttons.
18	The message "Scanner key name has invalid character" appears.	Characters other than the standard characters cannot be used in button names.	Specify a button name that contains only standard characters.
19	The message "Incorrect IP address" appears.	Letters are entered into the IP address.	Specify the IP address in the format xxx.xxx.xxx.xxx.
20	The message "Currently this command not acceptable" appears.	While communicating with the copier, for example, while programming or deleting a button, the next transmission is performed.	Wait until the current connection is cut (until the message "Currently this function is not available. Try again later." disappears from the task bar at the bottom of the window) before performing the next operation.
21	The message "Failed to write to image file" appears.	There is not enough space in the save destination.	Change the save destination or create some free space on the drive.
		There is a problem with the save destination.	Change the save destination.
22	The message "Image folder not found. Please specify an image save folder." appears.	The specified folder does not exist.	<ul style="list-style-type: none"> • Check the name of the storage folder. • Change the name of the storage folder.

3-7. Direct Fax Transmission (Gateway transmission)

No.	Condition	Cause	Action
1	Data does not arrive at the network copier.	The settings for Network FAX are incorrect.	Check the settings for Network Fax.
		The necessary network settings, such as DNS, have not been specified.	Specify the necessary network settings.
		Since the size of the received data is large, it cannot be received due to the server's limitations.	Reduce the size of the data, for example, by decreasing the number of pages, and then try sending again.
2	A fax cannot be sent from this copier.	The communication mode for gateway transmissions is incorrectly specified.	The Gate Way TX parameter must be set to Yes, and the communication mode must be set correctly.

3-8. PageScope Light

No.	Condition	Cause	Action
1	A connection with PageScope Light cannot be established.	The IP address for the device is not specified correctly.	Specify the IP address.
		The URL setting in the Web browser is incorrect.	In the "Address" box, type the IP address of the specified device.
		The settings in the Web browser are incorrect.	Even though the device can be accessed, certain settings must be specified according to the network configuration in order to establish a connection. For details, contact your network administrator.
		If a proxy is specified with the browser and the IP address of this copier cannot be recognized by the proxy server, the MFP agent window cannot be displayed.	Use the proxy settings in the browser to add the IP address of this copier to the list of exceptions that will not use the proxy server.
		The LAN cable is damaged.	Replace the LAN cable.
2	Login failure	Before this login, a different user name and password had been entered.	Once login is successful, that user name and password is saved in the browser until the browser is closed. Close the browser, and then start it up again.
3	The text in the window is disorganized.	The browser is too small.	Increase the size of the browser.
		An appropriate font size is not selected.	Specify an appropriate font size for the computer and browser.
4	Items that do not match the device configuration are displayed.	Settings that do not match the device configuration are not available when specifying settings. They do not have any effect on the actual settings.	—
5	Some deleted characters remain in the window.	Operations differ depending on the browser used.	Reload the browser window or rescan.
6	The number of digits in an input or display area and the number of characters that can be registered are different.	Depending on the browser, scroll within the input area. If this is not possible, this should not affect the actual setting operation, although it may be a problem for displaying.	—
7	Some characters cannot be specified or displayed.	Depending on the operating system, some characters cannot be specified or displayed.	—
8	Space characters cannot be specified or displayed.	Spaces entered at the end of words may be removed.	—
9	Entered data was erased when an error occurred while specifying settings.	Depending on the browser, settings that appear as "*", such as passwords, may be erased.	—

3-9. Other (Network Functions)

No.	Condition	Cause	Action
1	When the power is switched on, the touch panel either shows a white screen, or only displays "please wait".	The device is not operating correctly.	Reinsert the CLAN circuit board. Change the CLAN circuit board.
2	[Network Settings] does not appear on the Administrator Management screen.	The device is not operating correctly.	Reinsert the CLAN circuit board, the network scanner circuit board, or the network interface board. Replace the CLAN circuit board, the network scanner circuit board, or the network interface board.
3	Fax transmission is not possible from the Auto Screen.	Priority transmission mode is set to "Internet Fax".	Change the priority transmission mode setting. Alternatively, when priority transmission mode is "Internet Fax", change the priority screen to "Fax".
4	"Registering the network: Currently registering the network, therefore no operations can be carried out. Please wait." is displayed on the touch panel.	The administrator is currently logged in from PageScope Light.	Wait until the administrator completes their work and logs out. <ul style="list-style-type: none"> Where the administrator has closed the browser without logging out, make a request of the administrator by logging in, and then logging out as administrator from PageScope Light.

3-10. Reference: "Network FAX"

(1) "Network FAX" Fax Transmission

No.	Condition (message)	Cause	Action
1	User disconnected.	When the user has stopped the transmission.	—
2	Server connection error.	When a connection with the SMTP server was attempted, but not successfully established.	Check that the SMTP server address and network device address are correct. Check that the PC settings are correct. The SMTP server may be down. Contact the server administrator.
3	Server recognition error.	A connection was established with the server, however that server was not functioning as an SMTP server.	Check that the SMTP server address is correct.
4	Corrupt attached file.	Conversion of the attached file into text format for transmission was attempted, but an error was generated. Creation of the TIFF file for mail transmission failed.	This indicates insufficient memory. Close all other open applications and try again.
5	Destination not specified.	A destination was not specified for the document.	Check that a destination is specified.

No.	Condition (message)	Cause	Action
6	Sender mail address not specified.	Mail transmission can not commence, as the sender mail address is not specified.	A sender mail address is required in order to transmit mail. In "Default Settings" "Address Settings", specify "Network FAX Mail Address".
7	Invalid sender mail address.	The mail is rejected by the server, because the sender address is in an invalid format.	Check that the mail address specified in "Default Settings" "Address Settings" "Network FAX Mail Address" is of the correct format, similar to "shin@aaaaa.com". The address must comprise single-byte alphanumeric characters.
8	Invalid destination address.	Transmission is not possible, because of an invalid e-mail address format.	Check that the mail address is of the correct format, similar to "shin@aaaaa.com". The address must comprise single-byte alphanumeric characters.
		This is thought to be because of an incorrect network device domain name.	Recheck the "Domain Name (Network Device Domain Name)" in "Default Settings", "Fax Domain".
9	Document transmission failure.	Fax transmission occurred, but was rejected by the server.	Request that the network administrator check that the SMTP server is correctly functioning.
10	Transmission error.	An error has occurred in fax transmission.	Transmission of a large file attachment may result in the server not being able to correctly process it.
11	Communication error.	An error has occurred in communication with the server. Communication was forcefully terminated.	When this was not cancelled by the user, there may be a malfunction on the network. Wait, and then try again, or check with the network administrator.
12	File I/O error	An error has occurred in file processing.	Restart the PC, and try again.

(2) "Network FAX"

(Operation using other mail software and e-mail addresses)

No.	Condition	Cause	Action
1	A TIFF format mail was returned with an error message.	When a mail transmitted using this mail could not be delivered to the recipient, an error message is returned.	Recheck that the mail address specified for transmission is correct.
2	Mail can not be retrieved.	After receiving mail, mail is set to be deleted from the server.	In your mail software settings, specify that mail is not deleted from the server.

- * The Network FAX series has other companion software, however only one of these may be installed on a single PC at one time.
- * When using this software, all other Network FAX series software must be uninstalled from the PC as per the Readme file.



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