

Konica

SERVICE MANUAL

FAX MODEL

9830

MAY 2000

KONICA BUSINESS TECHNOLOGIES, INC.

Product: 2000 Konica FAX Models 9830 Service Repair Workshop Manual
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MAY 2000

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IMPORTANT NOTICE

Because of the possible hazards to an inexperienced person servicing this equipment, as well as the risk of damage to the equipment, Konica Business Technologies strongly recommends that all servicing be performed by Konica-trained service technicians only.

Changes may have been made to this equipment to improve its performance after this service manual was printed. Accordingly, Konica Business Technologies, Inc., makes no representations or warranties, either expressed or implied, that the information contained in this service manual is complete or accurate. It is understood that the user of this manual must assume all risks or personal injury and/or damage to the equipment while servicing the equipment for which this service manual is intended.

Corporate Publications Department

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SAFETY AND IMPORTANT WARNING ITEMS

Read carefully the Safety and Important Warning Items described below to understand them before doing service work.

IMPORTANT NOTICE

Because of possible hazards to an inexperienced person servicing this equipment, as well as the risk of damage to the equipment, Konica Corporation, strongly recommends that all servicing be performed only by Konica-trained service technicians.

Changes may have been made to this equipment to improve its performance after this service handbook was printed. Accordingly, Konica Corporation, makes no representations or warranties, either expressed or implied, that the information contained in this service handbook is complete or accurate. It is understood that the user of this service handbook must assume all risks or personal injury and/or damage to the equipment while servicing the equipment for which this service handbook is intended. Therefore, this Service Handbook must be read carefully before doing service work both in the course of the technical training and even after that, for keeping the correct maintenance and control of the copying machine. Keep the Service Handbook also for the future service. When it is impossible to read the description about safety and warning (due to contamination or tear), the relevant page should be replaced.

SAFETY WARNINGS

MODIFICATIONS NOT AUTHORIZED BY KONCA

Konica copiers are renowned for their high reliability. This reliability is achieved through high-quality design and a solid service network.

Photocopier design is a highly complicated and delicate process where numerous mechanical, physical, and electrical aspects have to be taken into consideration, with the aim of arriving at proper tolerances and safety factors. For this reason, unauthorized modifications involve a high risk of degrading performance and safety. Such modifications are therefore strictly prohibited. The points listed below are not exhaustive, but they illustrate the reasoning behind this policy.

PROHIBITED ACTIONS :

- (1) Using extension cables or a different power cord than specified by Konica.
- (2) Using other fuses than specified by Konica. Safety will not be assured, leading to a risk of fire and injury.
- (3) Disabling fuses or bridging fuse terminals with wire, metal clips, solder or similar. (This applies also to thermal fuses.)
- (4) Removing air filters (except for replacement).
- (5) Disabling relay functions (such as wedging paper between relay contacts, etc.).
- (6) Disabling safety functions (interlocks, safety circuits, etc.). Safety will not be assured, leading to a risk of fire and injury.
- (7) Performing actions to copier not described in the instruction manual or the service handbook.
- (8) Using parts other than specified by Konica.

CHECKPOINTS WHEN PERFORMING ON-SITE SERVICE

Konica machines are extensively tested before shipping, to ensure that all applicable safety standards are met, in order to protect the customer and customer engineer from the risk of injury. However, in daily use, any electrical equipment will be subject to parts wear and eventual failure. In order to maintain safety and reliability, the customer engineer must perform regular safety checks.

CAUTION:

- (1) Wear clothing that facilitates work and is designed for safety.
- (2) Carry out all procedures carefully to prevent injury.
- (3) Be sure to disconnect the power cord of the copier and all optional equipment from the AC outlet.
Simply turning off the power switch is not sufficient, because paper feed units or other electrical equipment may be powered also when the power switch is turned off.
- (4) Proceed with special care when performing operation checks or adjustment while the unit is powered. When carrying out operation checks or adjustment while external covers are removed, the risk of electrical shock exists when touching parts which carry high voltage or electrical charge. The risk of injury exists when touching moving parts such as gears or chains.

The following list is not exhaustive, but it includes actions which must be carried out at every service call.

CAUTION:

- (1) Check external covers and the frame for sharp edges, burrs, or nicks.
- (2) Check external covers and hinges for loosening or damage.
- (3) Check wiring for squeezing or damage.
- (4) Check power cord for insulation problems (conductor must not be exposed).
- (5) Check power cord and cable ties etc. for loosening from frame.

WARNING:

- (1) Verify that the copier is properly grounded. If a problem is detected, establish a proper ground connection.
- (2) Connecting the ground lead to an improper point such as listed below results in a risk of explosion and electric shock.
Unsuitable ground points:
 - Gas pipe
 - Lightning rod
 - Telephone line ground
 - Plastic water pipe or water pipe or faucet that has not

PRECAUTIONS FOR ON-SITE SERVICE

CAUTION:

- (1) Before performing maintenance work, read all relevant documentation (service handbook, technical notices, etc.) and proceed according to the prescribed procedure, using only the prescribed tools. Do not carry out any adjustments not described in the documentation.
- (2) If the power cord is damaged, replace it only with the specified power cord. If the power cord insulation has been damaged and there are exposed sections, short-circuits and overheating may occur, leading to a serious fire risk.
- (3) Do not route the power cord so that it can be stepped on or pinched. Otherwise overheating may occur, leading to a serious fire risk.
- (4) When disconnecting any cables, always grasp the connector and not the cable (especially in the case of AC and high-voltage leads).
- (5) Carefully remove all toner remnants from electrical parts, electrodes, etc.
- (6) Make sure that wiring cannot come into contact with sharp edges, burrs, or other pointed parts.
- (7) Double-check to make sure that all screws, components, wiring, connectors, etc. that were removed for maintenance have been reinstalled in the original location. (Pay special attention to forgotten connectors, pinched cables, forgotten screws, etc.)
- (8) When installation and preventive maintenance, verify that the power cord has been securely plugged into the AC outlet. Contact problems may lead to increased resistance, overheating, and the risk of fire.

WARNING:

- (1) Before disassembling or adjusting the optical unit or any parts that use a laser, make sure that the power cord has been disconnected.
- (2) Do not remove the main cover of the write unit. Direct exposure of the eye to laser beams may lead to blindness.
- (3) Do not turn the copier on while the write unit is not installed in its normal position.
- (4) Danger of explosion if battery is incorrectly replaced, replace only with the same or equivalent recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

HANDLING OF MATERIALS FOR SERVICING

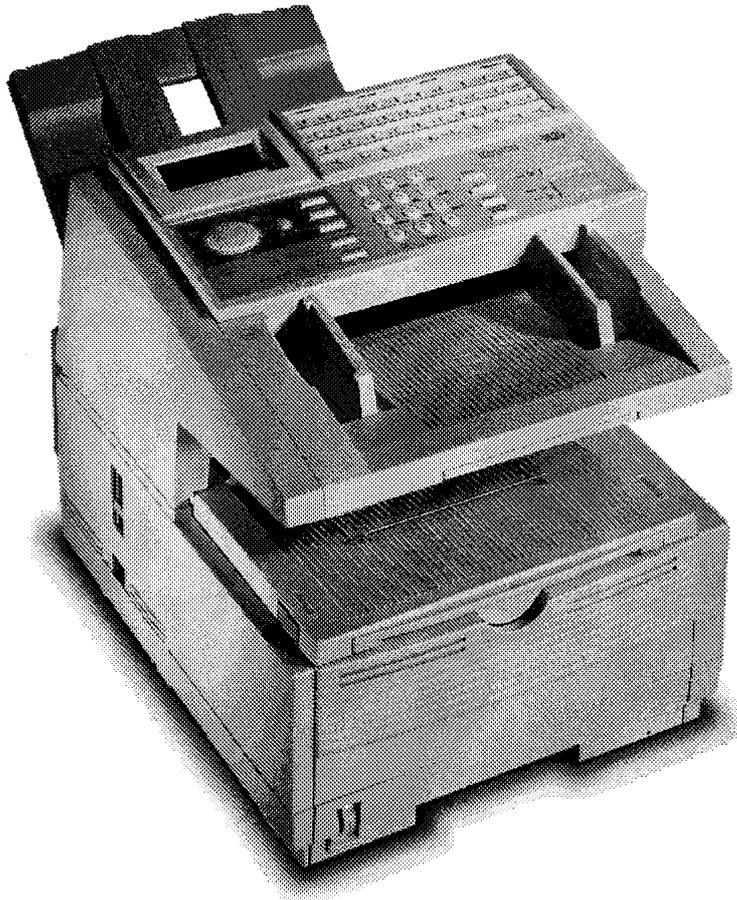
 CAUTION: Drum cleaner (alcohol-based) and roller cleaner (acetone-based) are highly flammable and must be handled with care. When using these materials for cleaning of copier parts, observe the following precautions.

- (1) Disconnect the power cord from the AC outlet.
- (2) Use only a small amount of cleaner at a time and take care not to spill any liquid. If this happens, immediately wipe it off.
- (3) Perform cleaning only in an environment where sufficient ventilation is assured. Breathing large quantities of organic solvents can lead to discomfort.
- (4) Do not replace the cover or turn the unit on before any solvent remnants on the cleaned parts have fully evaporated.

 CAUTION: Toner and developer are not harmful substances, but care must be taken not to breathe excessive amounts or let the substances come into contact with eyes etc. If this happens, immediately rinse with eye wash and plenty of water, and consult a physician.

MEASURES TO TAKE IN CASE OF AN ACCIDENT

- (1) If an accident has occurred, the distributor who has been notified first must immediately take emergency measures to provide relief to affected persons and to prevent further damage.
- (2) If a report of a serious accident has been received from a customer, an on-site evaluation must be carried out quickly and Konica Corporation must be notified.
- (3) To determine the cause of the accident, conditions and materials must be recorded through direct on-site checks, in accordance with instructions issued by Konica Corporation.



Machine and Accessories

Item Description	Item Number
FAX 9830	950-110
Stand	947-166
500-Sheet Universal Cassette	950-127
MFP Kit JetSuite Pro	950-117
Memory Upgrade (2.0 MB) with battery backup	950-118
Memory Upgrade (4.0 MB) with battery backup	950-119

* Toner cartridge and drum unit included with main body.

Supplies

Item Description	Item Number
Toner Cartridge	950-133
Drum Kit	950-138

Power Requirements: 120V AC \pm 10%

Chapter 1

General Information

Konica Business Technologies

1. GENERAL INFORMATION

1.1 General Performance

- (1) Type of appearance
 - Desktop type
- (2) Applicable lines
 - PSTN (Public switched telephone network)
 - PBX (Private branch exchange) telephone line
 - ISDN (Integrated service digital network)
 - LAN (Local area network)

Note: ISDN and LAN are option.
- (3) Compatibility
 - ITU-T Group 3 facsimile transceiver
 - ITU-T Group 4 facsimile transceiver (option)
- (4) Document width
 - Max. 216 mm (NA Letter)
 - Min. 148 mm (ISO A5 size)
- (5) Effective reading width

TX	• 215.4 mm (NA Letter)	COPY	• 211.3 mm (NA Letter)
	• 208.6 mm (ISO A4 size)		• 211.3 mm (ISO A4 size)*1

* Printing width will be 206 mm.
- (6) Scanning length
 - 128 mm to 356 mm

Length setting: Long documents (1500 mm) are also available.
- (7) Automatic document feeder (ADF)
 - 50 sheets (NA Letter/A4-size: 20-lb/75gm Konica recommended paper)
 - 30 sheets (NA Letter/A4-size: 16 to 28-lb/60 to 105gm)
- (8) Recording paper
 - 1st cassette: NA Letter/NA Legal/A4-size plain paper cut 250 sheets capacity (20-lb/75gm)
 - 2nd cassette (option): NA Letter/NA Legal/A4-size plain paper cut 500 sheets capacity (20-lb/75gm)
 - Manual paper feeder: Transparency for overhead projector, applicable.
Sheet size: NA Letter/NA Legal/A4-size
*: Konica recommended paper
- (9) Printable width
 - NA Letter: 211.3 mm (203.2 mm for assured quality)
 - NA Legal: 211.3 mm (203.2 mm for assured quality)
 - ISO A4: 206.0 mm (197.3 mm for assured quality)
- (10) Printable length
 - NA Letter: 273.4 mm (266.7 mm for assured quality)
 - NA Legal: 349.6 mm (342.9 mm for assured quality)
 - ISO A4: 291.0 mm (284.3 mm for assured quality)
- (11) Copy stacker
 - Face down stacking: Max. 200* sheets
 - Face up stacking: Max. 10* sheets

**Note 1: Konica recommended paper*
Note 2: Face down or face up stacking is changeable by the lever.

(12) Scanning resolution

a) Horizontal:

- 300 dot per inch
Note: 600 dpi x 15.4 mm; copy is available.

b) Vertical:

- 300 dot per inch, 15.4, 7.7, and 3.85 lines per mm
Note: 300 dpi x 300 dpi; Transmission is available.

(13) Scanning method

- 2592 bits contact image sensor

(14) Recording resolution

a) Horizontal:

- 600 dot per inch

b) Vertical:

- Variable:

	A4	Letter
STD	3.85 ~ 4.96	3.85 ~ 5.28
Fine	7.7 ~ 9.93	7.7 ~ 10.57
Ex-Fine (15.4 line/mm)	15.4 ~ 19.87	15.4 ~ 21.15
Ex-Fine (300 dot/inch)	300 ~ 387	300 ~ 412

- Fixed
EX-FINE mode : 300 dot/inch, 15.4 line/mm
FINE mode : 7.7 line/mm
STD mode : 3.85 line/mm
PC-Print : 600 dot/inch, 300 dot/inch

(15) Printing method

Electro photographic printing

- 211.3 mm (4992 bits) LED print head

(16) Minimum scan line time for reception

- When receiving from fax or ECM: 0 ms
- When receiving from non fax and non ECM: 10 ms at 3.85 line/mm
5 ms at 7.7 line/mm, 15.4 line/mm

(17) Print speed

- Max. 10 sheets per minute (at NA letter size)

(18) Coding scheme

- Modified Huffman (MH)
- Modified Read (MR)
- Modified Modified Read (MMR)

(19) Modem

- ITU-T Rec. V.29: 9600bps for use on point-to-point 4-wire leased telephone type circuit.
- ITU-T Rec. V.27 ter: 4800bps modem for use in GSTN (General Switched Telephone Network)
- ITU-T Rec. V.21 channel 2: 300 bps duplex modem for GSTN
- ITU-T Rec. V.17: 2-wire modem for fax applications up to 14.4kbps
- ITU-T Rec. V.34

(20) Transmission speed

- 3.0 sec. per sheet of ITU-T No.1 evaluation test chart (for Fax 9830)
Note: This is Phase C at 3.85 line/mm.

- (21) Protocol
 - ITU-T Rec. T.30
 - ITU-T Rec. G4 Class 1 (option)
 - OKI special protocols: High speed protocol (G3)

- (22) Error correction scheme
 - ITU-T ECM

- (23) Image memory
 - Basic model: 2.5 M-byte (Fax 9830)
 - Optional memory: 2.0/4.0 M-byte

- (24) Liquid crystal display (LCD)
 - Four lines of 20 characters for operation guidance, check and various kinds of information

- (25) Power source
 - Normal input voltage 120 VAC for ODA version
 - Normal input voltage 230 VAC for INT'L version

- (26) MFP (Multi-Function Peripheral) function
 - PC Printer function
 - PC Scanner function
 - PC Fax Modem function
 - Note: For details, see "Product Specification for MFP"*
 - Hardware is standard and software is option for Bi-Centro interface.*

- (27) ISDN function (option)
 - G4 function
 - ISDN G4: Communication
 - ISDN G3: Communication
 - ISDN: Report and List
 - Note: For details, see "Product Specification for ISDN G4 option"*

- (28) Network print service
 - Netware
 - TCP/IP
 - Windows NT/95/3.1
 - T600dpi, 10ppm
 - Note: For details, see "Product Specification for Network Print Service"*

1.2 General User's Functions

1) Transmission

- (1) Transmit mode
 - Automatic transmit mode
 - Manual transmit mode
- (2) Instant Dialling
- (3) Delayed feeder transmission
- (4) Memory transmission
 - 40 sessions
- (5) Delayed memory transmission (within 3 days)
 - 20 specified times for Fax 9830
- (6) Sequential broadcast (Memory)
 - 150 stations for Fax 9830
- (7) Delayed broadcast
 - 20 specified times
- (8) Confidential message transmission
 - Feeder Confidential TX
 - Memory Confidential TX
- (9) Relay broadcast initiate
 - Feeder Relay broadcast initiate
 - Memory Relay broadcast initiate
- (10) Polling transmission
 - Feeder Polling TX
 - Memory Polling TX
- (11) Bulletin Poll transmission (When Box number is opened.)
 - 16 boxes
- (12) Batch transmission
- (13) Priority transmission
- (14) Transmission preparation (Feeder)

2) Reception

- (1) Receive mode
 - Automatic receive mode
 - Manual receive mode
 - TEL/FAX receive mode
 - TAD mode
 - Memory receive mode
 - PC receive mode
 - Forwarding mode
- (2) Memory only reception
- (3) No toner/No paper reception (memory)
- (4) Confidential message reception
 - 16 mail boxes
- (5) Fax forwarding for incoming call
- (6) Fax forwarding for no toner/no paper reception
- (7) Polling reception

3) Convenience

- (1) Dual access
- (2) Automatic redial
- (3) Last number redial (Manual redial)
- (4) Local copy of a document, including multiple copies
 - 99 copies max.
- (5) Sender identification (Sender ID)
- (6) Personal identification (Personal ID)
- (7) TSI/CSI: Local telephone number
- (8) Acoustic monitor (only TX mode)
 - 5 level selectable
- (9) Automatic alternate selecting call
(FAX No. + FAX No. can be registered in one-touch keys).
 - Speed Dial (1 to 40) are assigned to one-touch keys.
- (10) Half-tone transmission (at FINE resolution)
 - 64 scale gradations
- (11) Page re-transmission (Only when memory TX mode)
- (12) Distinguishing text from pictures
- (13) Vertical reduction printing (Reduction rate is from 100% to xx%)
Note: xx is Letter 72.8%, A4 77.5%

- (14) Smoothing printing
In case of 8 dot/mm x 3.85 lines/mm → 300 dot/inch x 784 lines/inch
- (15) Auto dialing
 - Speed dialing:
1 to 140 (1 to 40 are assigned to one-touch keys.)
 - Group dialing; 20 groups
 - Keypad dialing
 - Chain dialing
 - Mixed dialing
- (16) Real-time dialing
Dialing with off hook condition or when the HOOK key is pressed.
- (17) Automatic pause signal insertion
- (18) Local copy
- (19) Telephone directory (Alpha/Location) dialing
- (20) TEL/FAX automatic switching
- (21) TAD mode (for external telephone answering device)
- (22) Session number
- (23) Time and date printing
- (23) Closed user group (Direct mail rejection)
- (24) Contrast and resolution control
- (25) Key touch tone
- (26) Printer counter display (For drum, toner, print, and scan)
- (27) Quick scanning
- (28) Time and date setting
- (29) Language selection
 - 2 languages (LCD and Report)
- (30) Distinctive ring detect
- (31) Restricted access
- (32) Beep sound

4) Reports

- (1) Function list
- (2) Configuration
- (3) Phone directory

- (4) Group directory
- (5) Activity report
- (6) Active memory files
- (7) Broadcast MCF (Message Confirmation)
- (8) Protocol dump (G3 and G4)
- (9) NIC configuration
- (10) Log. report
- (11) G4 Log. report
- (12) Self diagnosis report

5) Report options

- (1) MCF. (Single-Loc.)
- (2) MCF. (Multi-Loc.)
- (3) Image in MCF.
- (4) Error report (MCF.)

1.3 General Maintenance Functions

1) Local tests

- (1) Self-diagnosis
 - Main board
 - CPU ROM/RAM check
 - Flash memory check (Program, Language, and Default)
 - Modem
 - RAM check
 - Toner cartridge
 - Option memory check
 - DEVICE ID
 - LAN Board check (option)
 - ISDN board (option)
 - CPU ROM/RAM check
- (2) Sensor calibration (Adjustment of scanning level)
- (3) LED test
- (4) Tone send test (When NCU board is installed.)
- (5) High-speed modem send test (When NCU board is installed.)
- (6) High-speed modem receive test (When NCU board is installed.)
- (7) MF tone test (When NCU board is installed.)

- (8) Tone (TEL/FAX) test (When NCU board is installed.)
- (9) Loop back 1 (When ISDN option board is installed.)
- (10) Loop back 2 (When ISDN option board is installed.)
- (11) INFO0 sending (When ISDN option board is installed.)
- (12) INFO1 sending (When ISDN option board is installed.)
- (13) INFO2 sending (When ISDN option board is installed.)
- (14) INFO3 sending (When ISDN option board is installed.)
- (15) Pulse (1kHz) send (When ISDN option board is installed.)
- (16) Pulse (2kHz) send (When ISDN option board is installed.)
- (17) Pulse (N2kHz) send (When ISDN option board is installed.)

2) Technical setup

3) System reset

- All data clear
- Location data clear
- Configuration data clear

4) Default type set

5) PC loading

6) G4 PC loading

1.4 General Appearance

Figure 1.4.1 shows the general appearance of the Fax 9830.

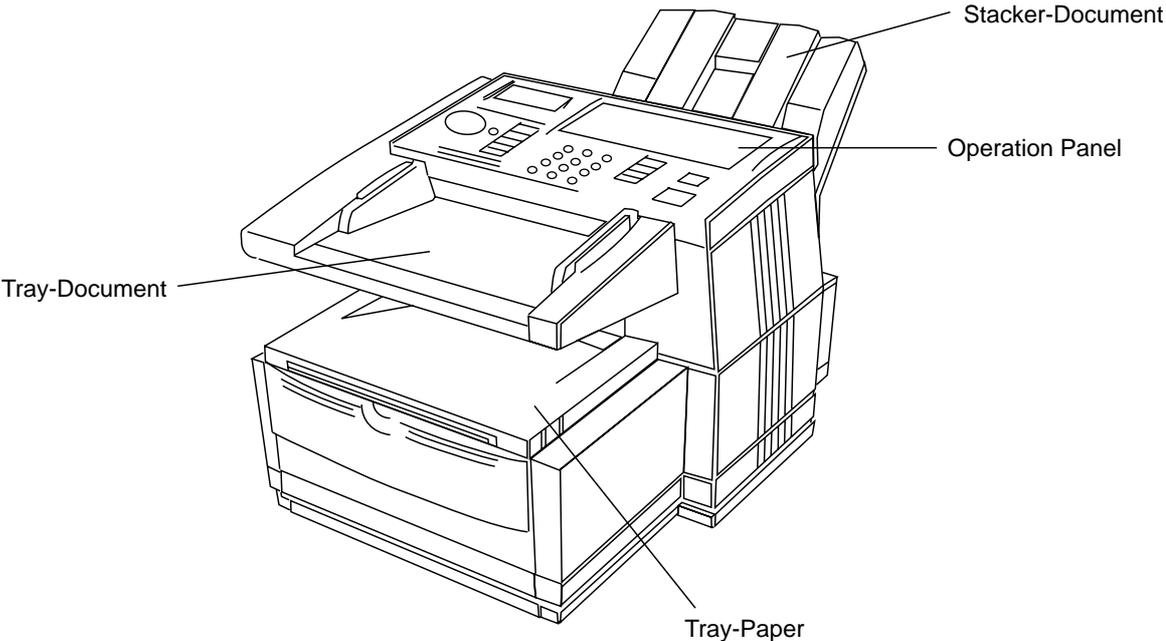
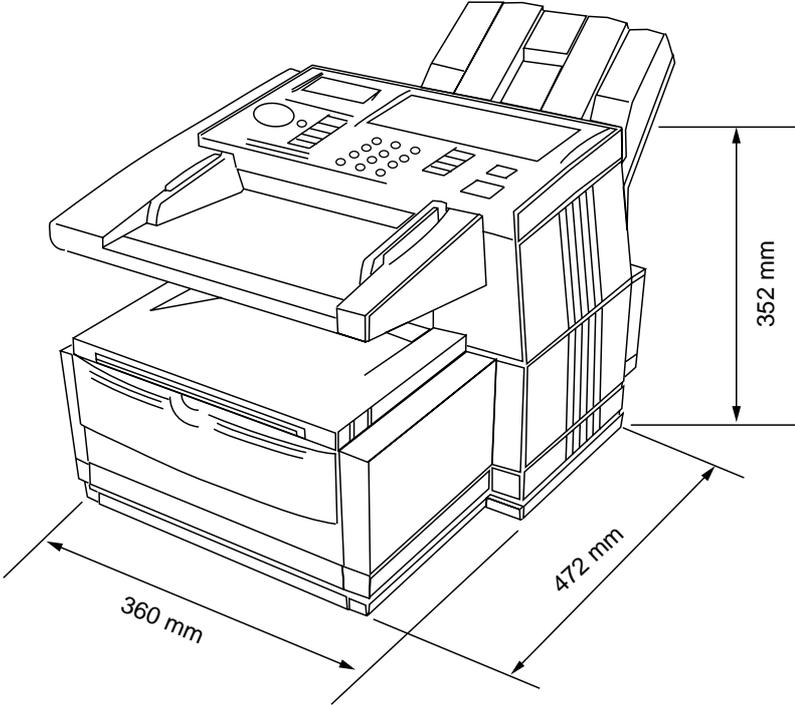
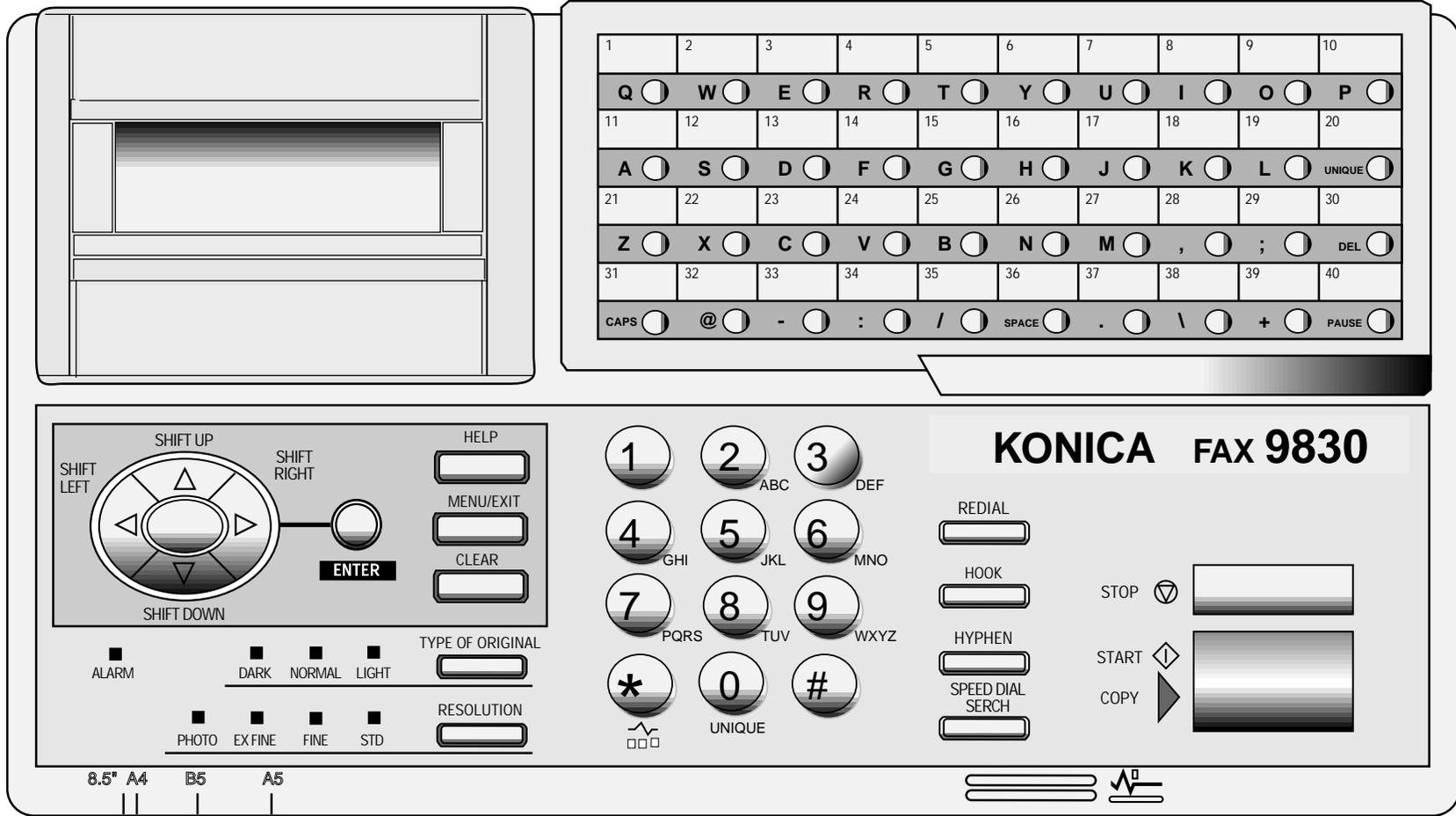


Figure 1.4.2 Control Panel of Fax 9830



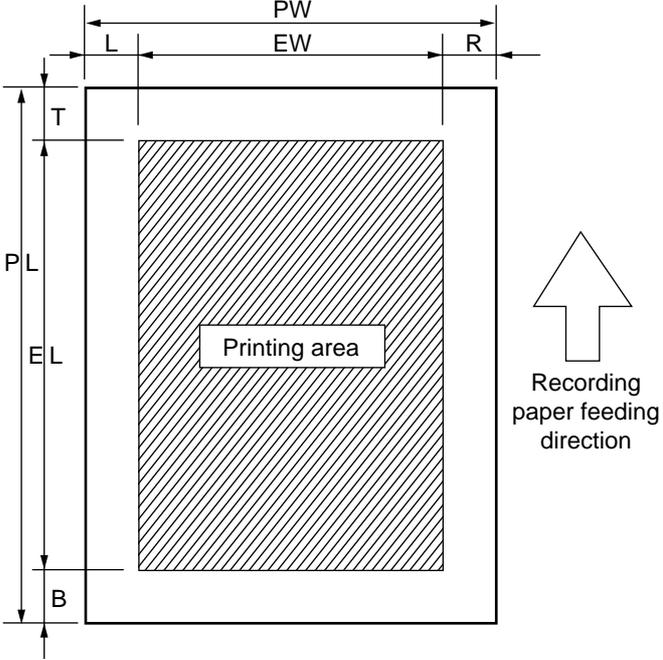
1.5 Basic Performance Specifications

Table 1.5.1 shows basic performance specifications:

Table 1.5.1 Basic Performance Specifications

No.	Item	Specifications												
1	Applicable line	1) PSTN (Public switched telephone network) 2) PBX (Private branch exchange) 3) ISDN (Integrated services digital network): Option 4) LAN (Local area network): Option												
2	Line interface	600 ohm balanced												
	1) Impedance	<i>Note:</i> Impedance may differ by the requirement of PTT												
	2) Sending power level	0 dBm to -15 dBm range (Adjustable in 1 dB steps: Technical Setup No.21)												
	3) Receiving power level	0 dBm to -43 dBm (In case of V.34 TX/RX, -3 ~ -36 dBm)												
3	Type of document to be transmitted	Max. 216 mm (NA Letter) Min. 148 mm (ISO A5)												
	1) Width	<i>Note:</i> Effective reading width is NA Letter (215.4 mm)												
	2) Length	Min. 128 mm (5 inch) Max. 356 mm (14 inch) Long document detection: 380 mm or 1500 mm (Technical Setup No. 10: To enables or disables the long document scanning.)												
	3) Thickness	Based on common bond paper, 1) 0.08 to 0.13 mm for multiple page feeding 2) 0.06 to 0.15 mm for single page feeding												
	4) Shape	Rectangular												
	5) Opacity	Document allowing less than 40% of the scanner source light to pass through them.												
4	Effective reading width	<table border="1"> <thead> <tr> <th>Document Width</th> <th>Communication mode/paper width</th> <th>Copy size</th> <th>Effective reading width</th> </tr> </thead> <tbody> <tr> <td>NA Letter (216 mm) US/CANADA</td> <td>G3/A4</td> <td>Letter</td> <td>215.4 mm for TX 211.3 mm for local copy</td> </tr> <tr> <td>ISO A4 (210 mm) INT'L</td> <td>G3/A4</td> <td>A4</td> <td>208.6 mm for TX 211.3 mm for local copy (*1)</td> </tr> </tbody> </table> <p><i>Note (*1):</i> Printing width will be 206 mm.</p>	Document Width	Communication mode/paper width	Copy size	Effective reading width	NA Letter (216 mm) US/CANADA	G3/A4	Letter	215.4 mm for TX 211.3 mm for local copy	ISO A4 (210 mm) INT'L	G3/A4	A4	208.6 mm for TX 211.3 mm for local copy (*1)
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ISO A4 (210 mm) INT'L	G3/A4	A4	208.6 mm for TX 211.3 mm for local copy (*1)											

No.	Item	Specifications
5	Automatic document feeder (ADF) capacity	<p>Max. 50 documents: 20 lb/75gm NA Letter or A4 size paper Max. 30 documents: 16 to 28/60 to 105gm NA Letter or A4 size paper Document shall be placed facedown on ADF stacker.</p>
6	Document skew	<p>Max. 1.0 mm skew over any advance of 100 mm. The occurrence of skew exceeding 1 mm per 100 mm shall be 0.5% or less.</p>
7	Document jam detection	<p>1) Transmission will stop and a line disconnection will occur when the end of the document is detected within 380 mm after scanning begins.(except if unlimited: Technical Setup No.10) 2) A jam will also be declared if the document does not reach the scanning position within about 5 seconds after the start of a document feed. <i>Note:</i> When a jam is detected during message transmission, the machine will stop, but its receiving capability will remain valid.</p>
8	Document jam removal	Manual release
9	Document stacking	<p>Documents up to 297 mm in length, which meet the basic weight and thickness specification, will exit on the stacker, and documents of Letter or A4-size will stack in sequence. The first sheet will be fed first in the feeder and will exit on the stacker with printing side down.</p>
10	Recording paper.	<p>For the first or second recording paper cassette: 1) Type: Plain paper (Bond paper: Xerox 4200 type or equivalent) 2) Size: ISO A4: 210 mm x 297 mm NA Letter: 215.9 mm x 279.4 mm/8.5 inch x 11 inch NA Legal 14: 215.9 mm x 355.6 mm/8.5 inch x 14 inch NA Legal 13: 215.9 mm x 330.2 mm/8.5 inch x 13 inch 3) Weight: 16 lbs to 24 lb/60 to 105gm base weight Base weight is defined as the weight of 500 sheets of 431.8 mm (17 inch) by 558.8 mm (22 inch) or 1 sheet of size 1000mm by 1000mm. 4) Thickness: 0.08 mm to 0.13 mm 5) Condition: New paper</p> <p>For the manual paper feeder: 1) Type: Plain paper, colored paper, printed paper, envelope 2) Size: LA Letter/A4/NA Legal/Executive/A5/A6/etc. 3) Weight, thickness and condition: Same as above <i>Note:</i> One single sheet should be loaded on the manual paper feeder for one occasion.</p> <p>For best results use Konica recommended papers 1) Xerox 4200 (20-lb/75gm base weight paper)</p>

No.	Item	Specifications																																																																																									
11	Recording paper cassette First cassette	Up to 250 sheets/cassette (Konica recommended paper)																																																																																									
	Second cassette (option)	Up to 500 sheets/cassette (Konica recommended paper)																																																																																									
12	Effective recording paper	 <p data-bbox="328 1200 547 1234">1) Printable area</p> <table border="1" data-bbox="762 1205 1394 1581"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Letter Size</th> <th colspan="2">A4 Size</th> <th colspan="2">14 inch Legal Size</th> <th colspan="2">13 inch Legal Size</th> </tr> <tr> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>PL</td> <td>11</td> <td>279.4</td> <td>11.7</td> <td>297</td> <td>14</td> <td>355.6</td> <td>13</td> <td>330.2</td> </tr> <tr> <td>PW</td> <td>8.5</td> <td>216</td> <td>8.27</td> <td>210</td> <td>8.5</td> <td>216</td> <td>8.5</td> <td>216</td> </tr> <tr> <td>EL</td> <td>10.76</td> <td>273.4</td> <td>11.46</td> <td>291</td> <td>13.76</td> <td>349.6</td> <td>12.76</td> <td>324.2</td> </tr> <tr> <td>EW</td> <td>8.32</td> <td>211.3</td> <td>8.11</td> <td>206</td> <td>8.32</td> <td>211.3</td> <td>8.32</td> <td>211.3</td> </tr> <tr> <td>T</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> </tr> <tr> <td>B</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> <td>0.12</td> <td>3</td> </tr> <tr> <td>L</td> <td>0.09</td> <td>2.3</td> <td>0.08</td> <td>2</td> <td>0.09</td> <td>2.3</td> <td>0.09</td> <td>2.3</td> </tr> <tr> <td>R</td> <td>0.09</td> <td>2.3</td> <td>0.08</td> <td>2</td> <td>0.09</td> <td>2.3</td> <td>0.09</td> <td>2.3</td> </tr> </tbody> </table>		Letter Size		A4 Size		14 inch Legal Size		13 inch Legal Size		inch	mm	inch	mm	inch	mm	inch	mm	PL	11	279.4	11.7	297	14	355.6	13	330.2	PW	8.5	216	8.27	210	8.5	216	8.5	216	EL	10.76	273.4	11.46	291	13.76	349.6	12.76	324.2	EW	8.32	211.3	8.11	206	8.32	211.3	8.32	211.3	T	0.12	3	0.12	3	0.12	3	0.12	3	B	0.12	3	0.12	3	0.12	3	0.12	3	L	0.09	2.3	0.08	2	0.09	2.3	0.09	2.3	R	0.09	2.3	0.08	2	0.09	2.3	0.09	2.3
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13	Copy stacking	<p>The printed copies will be discharged on the stacker with printed face up or face down.</p> <p>1) Face down stacking: Up to 200 copies * 2) Face up stacking: Up to 10 copies *</p> <p><i>Note:</i> 1) Using the recommended paper, New standard 20-lb.(Xerox 4200) 2) Except 16 lb papers. 3) Face down or face up stacking is changeable by the lever.</p>																																																																																									
14	Scanning resolution	<p>Horizontal: • 300 dot/inch <i>Note:</i> 600 dpi x 15.4 mm; Copy is available.</p> <p>Vertical: Transmission mode: • 300 dot/inch, 15.4 lines/mm (EX-FINE), 7.7 lines/mm (FINE) or 3.85 lines/mm (STD)</p>																																																																																									
15	Scanning method	NA Letter size (2592-bits) direct contact image sensor																																																																																									
16	Contrast control	The Light and Dark contrasts (low contrast) will be automatically enhanced to improve image quality. Slice level shifting has 3 levels of switch selection on operation panel.																																																																																									

No.	Item	Specifications															
17	Recording resolution	<p>Horizontal</p> <ul style="list-style-type: none"> • 600 dot/inch <p>Vertical</p> <ul style="list-style-type: none"> • 300 dot/inch (EX-FINE), 15.4 line/mm (EX-FINE), 7.7 line/mm (FINE), or 3.85 line/mm (STD) <p>Variable:</p> <table border="1" data-bbox="778 546 1401 689"> <thead> <tr> <th></th> <th>A4</th> <th>Letter</th> </tr> </thead> <tbody> <tr> <td>STD</td> <td>3.85 ~ 4.96</td> <td>3.85 ~ 5.28</td> </tr> <tr> <td>Fine</td> <td>7.7 ~ 9.93</td> <td>7.7 ~ 10.57</td> </tr> <tr> <td>Ex-Fine (15.4 line/mm)</td> <td>15.4 ~ 19.87</td> <td>15.4 ~ 21.15</td> </tr> <tr> <td>Ex-Fine (300 dot/inch)</td> <td>300 ~ 387</td> <td>300 ~ 412</td> </tr> </tbody> </table>		A4	Letter	STD	3.85 ~ 4.96	3.85 ~ 5.28	Fine	7.7 ~ 9.93	7.7 ~ 10.57	Ex-Fine (15.4 line/mm)	15.4 ~ 19.87	15.4 ~ 21.15	Ex-Fine (300 dot/inch)	300 ~ 387	300 ~ 412
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18	Copy resolution	<ul style="list-style-type: none"> • STD: 200 dot/inch x 3.85 line/mm • FINE/PHOTO: 300 dot/inch x 300 dot/inch • EX-FINE: 600 dot/inch x 15.4 line/mm 															
19	Recording method	<p>Electro-photographic printing</p> <ul style="list-style-type: none"> • 211.3 mm (4992 bits) LED print head 															
20	Recording paper skewing	<p>Maximum allowable skew is + or - 1 mm over any advance of 100 mm.</p>															
21	Copy darkness	<p>1) Black image: Greater than 1.2 OD *</p> <p>2) White background (unprinted area): Not greater than 0.2 OD</p> <p><i>Note:</i> OD: (Optical density)</p>															
22	Copy uniformity	<p>Printed copies will exhibit a uniform density of printed and background areas:</p> <p>1) From edge to edge: 25%</p> <p>2) From copy to the next copy: 30%</p>															
23	Recording paper running out	<p>The fax can detect the no-paper condition by a photosensor.</p> <p>When the paper has run out in the local copy operation, the scanning will stop with "PAPER JAM" on the LCD and an ALARM LED turn on without an alarm tone.</p> <p>When the paper has run out while a message is being received and the no-paper reception is activated, the LCD display will show "MSG. IN MEMORY", and the Alarm LED turn on.</p>															
24	Minimum scan line time for receiving	<p>0 ms, when receiving in ECM mode of from a Konica facsimile.</p> <p>5 ms at 15.4 line/mm or 7.7 line/mm and 10 ms at 3.85 line/mm when receiving from a non-Konica facsimile or non-ECM mode.</p>															

No.	Item	Specifications																																			
25	Coding scheme	1) One-dimensional coding scheme: Modified Huffman (MH) 2) Two-dimensional coding scheme: Modified READ (MR) Modified Modified READ (MMR)																																			
26	Modem operations	1) High-speed Modem <ul style="list-style-type: none"> • ITU-T Rec. V.29 (9600/7200 bps) • ITU-T Rec. V.27 ter (4800/2400 bps) • ITU-T Rec. V.17 (14400/12000/9600/7200 bps) • ITU-T Rec. V.33 (14400/12000 bps) • ITU-T Rec. V.34 (33600/28800 bps) 2) Low-speed Modem <ul style="list-style-type: none"> • ITU-T Rec. V.21 channel 2 (300 bps) or equivalent 3) JBIG: (not on Fax 9830) 4) ISDN G4: ITU-T Rec. T.563, T.521, T.503, T.62, T.6, T.70																																			
27	Fallback	<p>Automatic fallback will occur according to the following sequences by FTT, RTN or PPR.</p> <table border="1" data-bbox="699 943 1337 1234"> <thead> <tr> <th>Fall-Back Rank</th> <th>Protocol</th> <th>Transmission Speed (bps)</th> <th>No. of Training</th> <th>RTN received</th> </tr> </thead> <tbody> <tr> <td>1st</td> <td>ITU-T V.17 (V.33)</td> <td>14400</td> <td>1</td> <td>1</td> </tr> <tr> <td>2nd</td> <td>ITU-T V.17 (V.33)</td> <td>12000</td> <td>1</td> <td>1</td> </tr> <tr> <td>3rd</td> <td>ITU-T V.17 (V.29)</td> <td>9600</td> <td>1</td> <td>1</td> </tr> <tr> <td>4th</td> <td>ITU-T V.17 (V.29)</td> <td>7200</td> <td>1</td> <td>1</td> </tr> <tr> <td>5th</td> <td>ITU-T V.27 ter.</td> <td>4800</td> <td>2</td> <td>1</td> </tr> <tr> <td>6th</td> <td>ITU-T V.27 ter.</td> <td>2400</td> <td>2</td> <td>1</td> </tr> </tbody> </table> <p>When the last trial fails, the transmitting station sends out a DCN signal to the remote station for disconnection. <i>Note:</i> <ul style="list-style-type: none"> • Modem automatically performs the fall-back depending upon the line condition. • V.34 fallback sequence: The modem automatically selects transmission speed according to the line condition. </p>	Fall-Back Rank	Protocol	Transmission Speed (bps)	No. of Training	RTN received	1st	ITU-T V.17 (V.33)	14400	1	1	2nd	ITU-T V.17 (V.33)	12000	1	1	3rd	ITU-T V.17 (V.29)	9600	1	1	4th	ITU-T V.17 (V.29)	7200	1	1	5th	ITU-T V.27 ter.	4800	2	1	6th	ITU-T V.27 ter.	2400	2	1
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28	Protocol	1) ITU-T Rec. T.30 2) Special protocol (speed protocol) The T.30 handshaking procedure will be conducted at message transmission speed instead of 300 baud, during transmission multi-page. <i>Note:</i> In High-speed protocol, V.34 is not applied. 3) ITU-T G4 Class 1 (option)																																			

No.	Item	Specifications																		
29	Image transmission time	<p>3.0 seconds at 33.6 kbps for Fax 9830 per sheet of ITU-T No.1 evaluation test chart.</p> <p><i>Note:</i> This speed denotes the time interval corresponding to Phase C (message transmission phase) as referred to in ITU-T T.30.</p> <table border="1" data-bbox="759 450 1406 607"> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;">G3 Basic</td> <td style="text-align: center;">Procedure Time</td> <td>Initial</td> <td>8.5 sec. (V34)</td> </tr> <tr> <td></td> <td>Intermediate</td> <td>1.0 sec. (V34)</td> </tr> <tr> <td></td> <td>Final</td> <td>1.0 sec. (V34)</td> </tr> <tr> <td></td> <td style="text-align: center;">Image Time</td> <td>33600 Standard</td> <td>3.0 sec.</td> </tr> <tr> <td></td> <td></td> <td>Fine</td> <td>4.2 sec.</td> </tr> </table> <p><i>Note:</i> The above table shows the values under the following conditions:</p> <ul style="list-style-type: none"> • Sender ID: OFF • High-speed protocol: OFF • Transmission mode: Memory • Resolution: STD <p>ITU-T ECM defined in T4, T.30 are provided.</p>	G3 Basic	Procedure Time	Initial	8.5 sec. (V34)		Intermediate	1.0 sec. (V34)		Final	1.0 sec. (V34)		Image Time	33600 Standard	3.0 sec.			Fine	4.2 sec.
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30	Error correction scheme (ECM)	Half-duplex																		
31	Communication mode	1) Voltage range																		
32	Ringing signal detection sensitivity	<ul style="list-style-type: none"> • 25 to 150 V r.m.s. Inoperative below 10V <p><i>Note:</i> This range may differ by the requirement of PTT.</p>																		
		2) Frequency range																		
		<ul style="list-style-type: none"> • 16 to 68 Hz <p><i>Note:</i> This range may differ by the requirement of PTT.</p>																		
		3) Ring response time																		
		<ul style="list-style-type: none"> • One-ringing signal or 5 sec, 10 sec, 15 sec, and 20 sec selectable 																		

No.	Item	Specifications																
33	Memory capacity (Image memory)	<table border="1" data-bbox="742 286 1289 369"> <tr> <th data-bbox="742 286 997 324">Basic model</th> <th data-bbox="997 286 1289 324">Optional memory</th> </tr> <tr> <td data-bbox="742 324 997 369">2.5 M-bytes</td> <td data-bbox="997 324 1289 369">2/4 M-bytes</td> </tr> </table> <table border="1" data-bbox="742 407 1289 566"> <thead> <tr> <th data-bbox="742 407 909 459">With option board</th> <th data-bbox="909 407 1133 459">Memory condition Standard (without option)</th> <th data-bbox="1133 407 1289 459">Pages</th> </tr> </thead> <tbody> <tr> <td data-bbox="742 459 909 504"></td> <td data-bbox="909 459 1133 504">2 M-bytes</td> <td data-bbox="1133 459 1289 504">200</td> </tr> <tr> <td data-bbox="742 504 909 548"></td> <td data-bbox="909 504 1133 548">4 M-bytes</td> <td data-bbox="1133 504 1289 548">360</td> </tr> <tr> <td data-bbox="742 548 909 566"></td> <td data-bbox="909 548 1133 566"></td> <td data-bbox="1133 548 1289 566">520</td> </tr> </tbody> </table> <p data-bbox="699 600 1359 660"><i>Note 1:</i> ITU-T No.1 sample document is used to count the number of sheets.</p> <p data-bbox="699 667 1359 750"><i>Note 2:</i> Memory back-up time is 72 hours (typical and Battery full charge condition) after the power off condition..</p> <p data-bbox="699 790 1359 851">General telephone function is available while the power is on.</p>	Basic model	Optional memory	2.5 M-bytes	2/4 M-bytes	With option board	Memory condition Standard (without option)	Pages		2 M-bytes	200		4 M-bytes	360			520
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		520																
34	Telephone handset (option)	<p data-bbox="699 857 1359 918"><i>Note:</i> In the fax special versions, general telephone is available even when the power is off.</p>																
35	Overheat protection	<p data-bbox="699 952 1359 1075">The heater of the fuser unit is controlled within the predetermined temperature range by the thermistor. If the temperature of the heater exceeds the range, the LCD displays "PRINTER ALARM4".</p> <p data-bbox="699 1081 1359 1205">Furthermore, the built-in thermostat in the fuser unit prevents the heater from being overheated even in the event of the failures in the above temperature control circuit.</p>																
36	PC interface applications (option)	<p data-bbox="699 1238 1359 1265">The following three modes are supported.</p> <ol data-bbox="699 1272 1359 1361" style="list-style-type: none"> 1) PC Printer function 2) PC Scanner function 3) PC FaxModem function <p data-bbox="699 1368 1359 1429"><i>Note 1:</i> Hardware is standard and software is option for Bi-Centro interface.</p> <p data-bbox="699 1435 1359 1496"><i>Note 2:</i> For details, see appendix "MFP product specification".</p>																
37	Network print service (option)	<ul data-bbox="699 1529 1359 1747" style="list-style-type: none"> • This function can be used for Fax 9830 network printer service. The NIC (Network Interface Card) Ethernet Adapter used for Fax 9830 is intended to be forward compatible with (future) products utilizing a Konica compatible interface. • Installing the NIC card for Fax 9830 provides Network print service as an option. <p data-bbox="699 1753 1359 1780"><i>Note:</i> For details, see appendix "Network Print Service"</p>																