Product: 2002 Brother MFC5200C/MFC890 FACSIMILE EQUIPMENT Printer Service Repair Workshop Manual
Full Download: https://www.arepairmanual.com/downloads/2002-brother-mfc5200cmfc890-facsimile-equipment-printer-service-repair-workshop-manual/

brother®

FACSIMILE EQUIPMENT
SERVICE MANUAL

MODEL: MFC5200C/MFC890

Sample of manual. Download All 294 pages at:
https://www.arepairmanual.com/downloads/2002-brother-mfc5200cmfc890-facsimile-equipment-printer-service-repair-works

Product: 2002 Brother MFC5200C/MFC890 FACSIMILE EQUIPMENT Printer Service Repair Workshop Manual
Full Download: https://www.arepairmanual.com/downloads/2002-brother-mfc5200cmfc890-facsimile-equipment-printer-service-repair-workshop-manual/

© Copyright Brother 2002

All rights reserved.

No part of this publication may be reproduced in any form or by any means without permission in writing from the publisher.

Specifications are subject to change without notice.

Sample of manual. Download All 294 pages at:
https://www.arepairmanual.com/downloads/2002-brother-mfc5200cmfc890-facsimile-equipment-printer-service-repair-works

PREFACE

This publication is a Service Manual covering the specifications, construction, theory of operation, and maintenance of the Brother facsimile equipment. It includes information required for field troubleshooting and repair--disassembly, reassembly, and lubrication--so that service personnel will be able to understand equipment function, to rapidly repair the equipment and order any necessary spare parts.

To perform appropriate maintenance so that the facsimile equipment is always in best condition for the customer, the service personnel must adequately understand and apply this manual.

This manual is made up of eight chapters and appendices.

SAFETY INSTRUCTIONS

CHAPTER 1 PARTS NAMES & FUNCTIONS

CHAPTER 2 SPECIFICATIONS

CHAPTER 3 INSTALLATION

CHAPTER 4 THEORY OF OPERATION

CHAPTER 5 MAINTENANCE

CHAPTER 6 DISASSEMBLY/REASSEMBLY, LUBRICATION, AND ADJUSTMENT

CHAPTER 7 MAINTENANCE MODE

CHAPTER 8 TROUBLESHOOTING

Appendix 1. Serial No. Descriptions

Appendix 2. Installation

Appendix 3. EEPROM Customizing Codes

Appendix 4. Firmware Switches (WSW)

Appendix 5. Re-packing Instructions

Appendix 6. Wiring Diagram

Appendix 7. Circuit Diagrams

This manual describes the models and their versions to be destined for major countries. The specifications and functions are subject to change depending upon each destination.

SAFETY INSTRUCTIONS

SAFETY PRINCIPLE

1) Before starting any operations, read this manual thoroughly. Especially read the safety instructions in this section carefully and ensure that you understand the contents.
2) Perform all the operations by following the procedures described in this manual. Follow all the cautions and warnings set out in the procedures and on safety labels affixed to the machine. Failure to do so may result in human injury or equipment damage.
3) Perform only the procedures explained in this manual. Refrain from opening or touching any portions that are not related to your required operation(s).
4) Repair and replacement of parts should be performed by trained and qualified persons only.

   Operators should not attempt to do such repair or replacement work.
5) It must be appreciated that the above-mentioned cautions and warnings do not cover everything because it is impossible to evaluate all the circumstances of repair situations.

SPECIAL SAFETY INFORMATION

Cautions and warnings are made clear by following the 'Safety Alert Symbols' or 'Signal Words' such as DANGER, WARNING and CAUTION.

1) SAFETY ALERT SYMBOL

   This is the safety alert. When you find this symbol placed on the equipment or marked in this manual, be aware of the potential of human injuries. Follow the recommended precautions and safety operation practices.
2) Understanding Signal Words

   DANGER is used to indicate the presence of a hazard which will cause severe human injuries or a fatal accident if the warning is ignored.

   WARNING is used to indicate the presence of a hazard or unsafe practices which may cause severe human injuries or a fatal accident if the warning is ignored.

   CAUTION is used to indicate the presence of a hazard or unsafe practices which may cause minor human injuries if the warning is ignored. CAUTION also calls your attention to safety messages in this manual.

3) Follow Safely Instructions

Carefully read all the safety messages set out in this manual and also in the safety warning signs placed on the equipment. In this manual, the safety instructions (safety alert symbols and signal words) are enclosed in a rectangular enclosure to bring them to your attention.

Keep the safety signs on the equipment in good condition and ensure none are missing or damaged. Replace the safety signs if unreadable or damaged. Learn how to operate the equipment and how to use the controls properly. Do not let anyone operate this equipment without following the instructions. Keep the equipment in proper working condition.

Unauthorized modification to the equipment may impair the function & safety and affect the life of the equipment.

Listed below are the various kinds of "WARNING" messages contained in this manual.

4) Caution for the battery

There is a danger of explosion if the battery is incorrectly replaced. Do not replace the battery. Do not disassemble, recharge or dispose of in fire.

Used battery should be disposed of according to local regulations.

⚠ WARNING

HAZARDOUS VOLTAGE

May cause serious injuries or fatal accidents. Voltage is now applied from the power supply of machine. There is a danger of electrical shock if you touch the active area inside the machine.

Be sure to turn the power supply switch OFF and pull the plug out from the power outlet before starting maintenance work on the machine.

⚠ CAUTION

ROTATING PARTS

Be aware of the potential danger of various rollers and take care not to get your fingers or hand caught into the machine, this can cause serious injuries. Note that the exit roller that ejects the printed paper is rotating while printing.

Be careful not to get your hair, fingers, hands, sleeve or necktie caught in the machine while operating the machine.

⚠ CAUTION

POWER CORDS & PLUGS

This machine is equipped with a 3-wire power cord fitted with a 3-pronged plug (bi-polar plug with grounding) for the user's safety.

Use these power cords in conjunction with a properly grounded electrical outlet to avoid an electrical shock.

⚠ CAUTION

SAFETY INTERLOCK

The scanner unit of this machine have electrical safety interlocks to turn the power off whenever they are opened.

CHAPTER 1

PARTS NAMES & FUNCTIONS

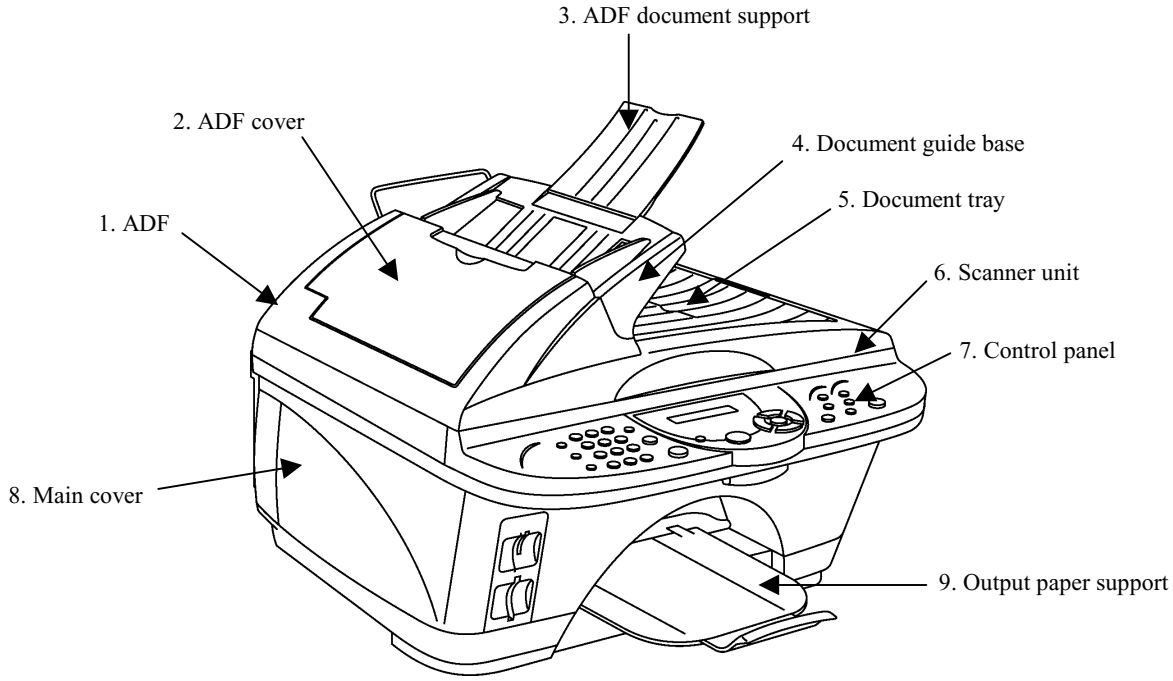
CHAPTER 1 PARTS NAMES & FUNCTIONS

CONTENTS

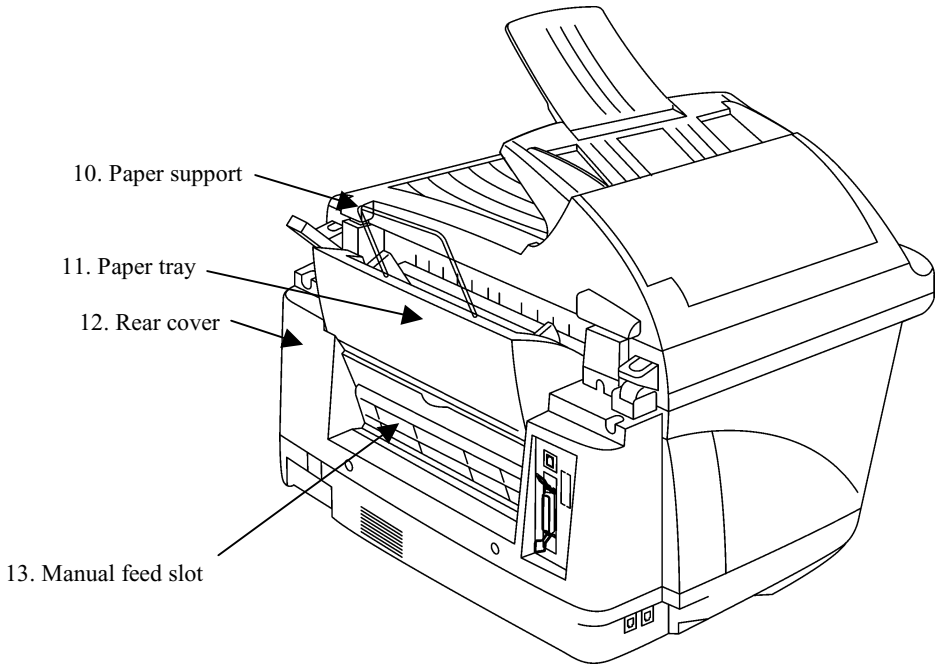
1.1 EQUIPMENT OUTLINE 1-1
1.2 CONTROL PANEL 1-3

1.1 EQUIPMENT OUTLINE

Front view

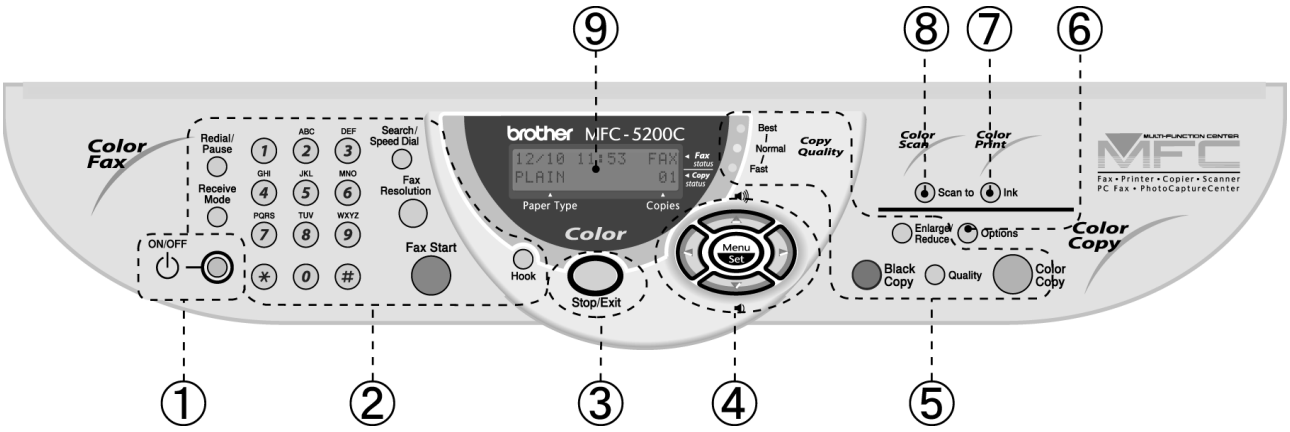


Rear view



No.	Part name	Outline of functions
1	ADF	Automatically feeds the document sheet by sheet to the reading unit.
2	ADF cover	Open this cover when removing jammed documents from the ADF.
3	ADF document support	Supports the documents fitted to the ADF so that they do not bend.
4	Document guide base	Adjusts the document position to the center of ADF.
5	Document tray	Stores the read documents.
6	Scanner unit	Indicates the whole reading unit including the control panel. Open this unit when changing the ink cartridge.
7	Control panel	Displays the machine operation status and is used to operate the machine.
8	Main cover	Indicates the whole enclosure of the machine.
9	Output paper support	Stores the printed sheets of paper.
10	Paper support	Supports the paper fitted to the paper tray so that they do not bend.
11	Paper tray	Automatically feeds the paper sheet by sheet to the printing unit.
12	Rear cover	Indicates the rear enclosure. Open this cover when doing maintenance work.
13	Manual feed slot	Used to feed the paper sheet by sheet manually. Open the slot cover when removing jammed paper from the machine.

1.2 CONTROL PANEL



① ON/OFF

You can turn the MFC on or off.

② Fax and telephone keys:

Redial/Pause

Redials the last number you called.
It also inserts a pause in auto dial numbers.

Receive Mode

Use to select how the MFC will handle incoming calls.

Dial Pad

Use this to dial telephone and fax numbers and as a keyboard for entering information into the MFC.
The # key lets you switch the dialing type during a telephone call from Tone to Pulse

Search/Speed Dial

Lets you look up numbers that are stored in the Dialing memory. It also lets you dial stored numbers by pressing # and a two-digit number.

Fax Resolution

Sets the resolution when you send a fax.

Fax Start

Starts an operation, such as sending a fax.

Hook

Lets you dial numbers without picking up the handset.

③ Stop/Exit

Stops a fax, cancels an operation or exits from the Menu.

④ Navigation keys:

Menu/Set

Lets you access the Menu to program and store your settings in the MFC.
Press to scroll forward or backward to a menu selection.
Also, you can use these keys to do an alphabetical search for the names of stored numbers.

Volume

Press to scroll through the menus and options.
When using the speaker, you can press these keys to adjust the volume.

⑤ Copy keys (Temporary settings):

Quality

Use this key to temporarily change the quality for Copying.

Quality indicator lights

These lights show the copy quality you selected with the Quality key.

Enlarge/Reduce

Lets you enlarge or reduce copies depending on the ratio you select.

Black Copy

Makes a black-and-white copy.

Color Copy

Makes a full-color copy.

⑥ Options

You can quickly and easily select temporary settings for copying or Photo Capture Center™.

⑦ Color Print key:

Ink

Lets you clean the print heads, replace an ink cartridge and check the available ink volume.

⑧ Scan key:

Scan to

Lets you scan the next original and select the destination in your computer.
(Such as a Word processing, graphics or E-mail application, Media card or on a Network.)

⑨ Liquid Crystal Display (LCD)

Displays messages on the screen to help you set up and use your MFC.

CHAPTER 2

SPECIFICATIONS

CHAPTER 2 SPECIFICATIONS

CONTENTS

2.1 GENERAL 2-1

2.1.1 General Specification 2-1

2.1.2 Paper Specification 2-1

2.1.3 Printable Area 2-3

2.1.4 Environmental Condition 2-4

2.2 OTHERS 2-5

2.1 GENERAL

2.1.1 General Specification

Memory Capacity	8MB
Automatic Document Feeder (ADF)	up to 30 sheets (20 lb)
Paper Tray	100 Sheets (20 lb)
Printer Type	Ink Jet
Print Method Configuration	Piezoelectric ceramic drive with 150 x 4 nozzles
LCD (Liquid Crystal Display)	16 characters x 2 Lines
Operating Environment	50-95ºF (10-35ºC)
Best Print Quality	68-91ºF (20-33ºC)
Power Source	120VAC 50/60Hz (U.S.A., Canadian Version Only) 240VAC 50/60HZ(Except U.S.A., Canadian Version)
Power Consumption	Minimum: under 5 watts (When Power Switch (ON/OFF) is turned off.) Standby: under 15 watts Operating: under 50 watts
Dimensions	19.4 x 18.3 x 14.9 (inches) 492 x 466 x 378 (mm)
Weight	28.6 1b/13 kg

2.1.2 Paper Specification

Recommended paper

Plain Paper:	Xerox 4200
Inkjet Paper:	KODAK® Premium Inkjet Paper (Matte)
Glossy Paper:	JETPRINT PHOTO® Graphic image paper - Gloss Finish
Transparencies:	3M Transparency Film (CG3410)

Paper capacity and specifications of the Paper Tray

Paper Type		Number of sheets	Paper Weight	Paper Thickness
Plain Paper	Letter Executive	100 of 20 lb (80 g/m 2)	17 to 32 lb (64 to 120 g/m 2)	0.003 to 0.006 in. (0.08 to 0.15 mm)
	Legal	50 of 20 lb (80 g/m 2)		
Inkjet Paper (Letter)		20	17 to 32 lb (64 to 120 g/m 2)	0.003 to 0.006 in. (0.08 to 0.15 mm)
Glossy Paper (Letter)		20	Up to 40 lb (150 g/m 2)	Up to 0.007 in. (0.18 mm)
Transparencies (Letter)		10		
Envelopes (DL, COM-10, C5, Monarch)		10		Up to 0.02 in. (0.52mm)
Postcard 4" x 6"		30	Up to 45 lb (170 g/m 2)	Up to 0.009 in. (0.23 mm)
Index Card 5" x 8"		30	Up to 32 lb (120 g/m 2)	Up to 0.006 in. (0.15 mm)

Paper stack specifications for the Paper Tray

Paper tray	Up to 0.39 in. (10 mm) Up to 100 sheets of 20 lb (80 g/m 2)	
Output paper support	Up to 50 sheets of 20 lb (80 g/m 2)	(Transparencies and glossy paper must be picked up from the output paper support one page at a time to avoid smudging.)

Paper specifications for the manual feed slot

Paper Width	3.5 to 8.5 in. (89 to 216 mm)
Paper Height	4 to 14 in. (102 to 356 mm)
Paper Thickness	0.005 to 0.01 in. (0.12 to 0.25 mm)

You have to remove paper from the paper tray and load one sheet at a time.

2.1.3 Printable Area

The printable area depends on the settings in the application you are using. The figures below show the unprintable areas on cut sheet paper and envelopes.

Paper	Paper size		Top	Bottom	Left	Right
Cut sheet	Letter, Legal	Fax	0.12	0.47	0.25	0.25
		Printer	0.12	0.47 (0.12)*	0.23	0.23
		Copy	0.12	0.47 (0.12)*	0.23 (0.12)*	0.23 (0.12)*
	Executive	Printer	0.12	0.47 (0.12)*	0.12	0.12
Post card	4" x 6"	Printer	0.12	0.47 (0.12)*	0.12	0.12
Envelopes	DL,C5,COM10 Monarch	Printer	0.39	0.79	0.12	0.12

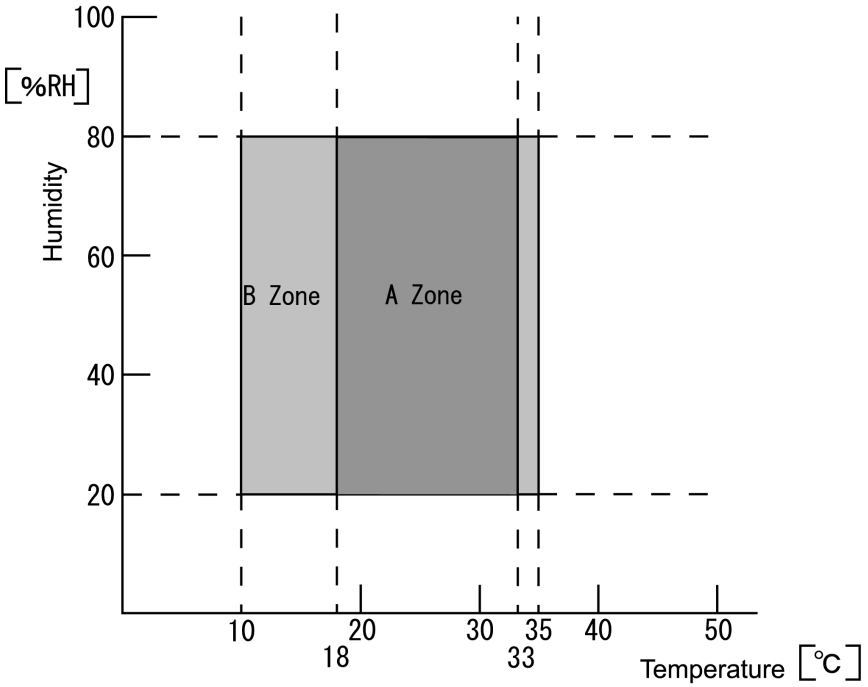
* When you set the Near Edge feature to ON.

Printer depends on the Printer driver.

The figures above are approximate and the printable area may vary depending on the type of cut sheet paper you are using.

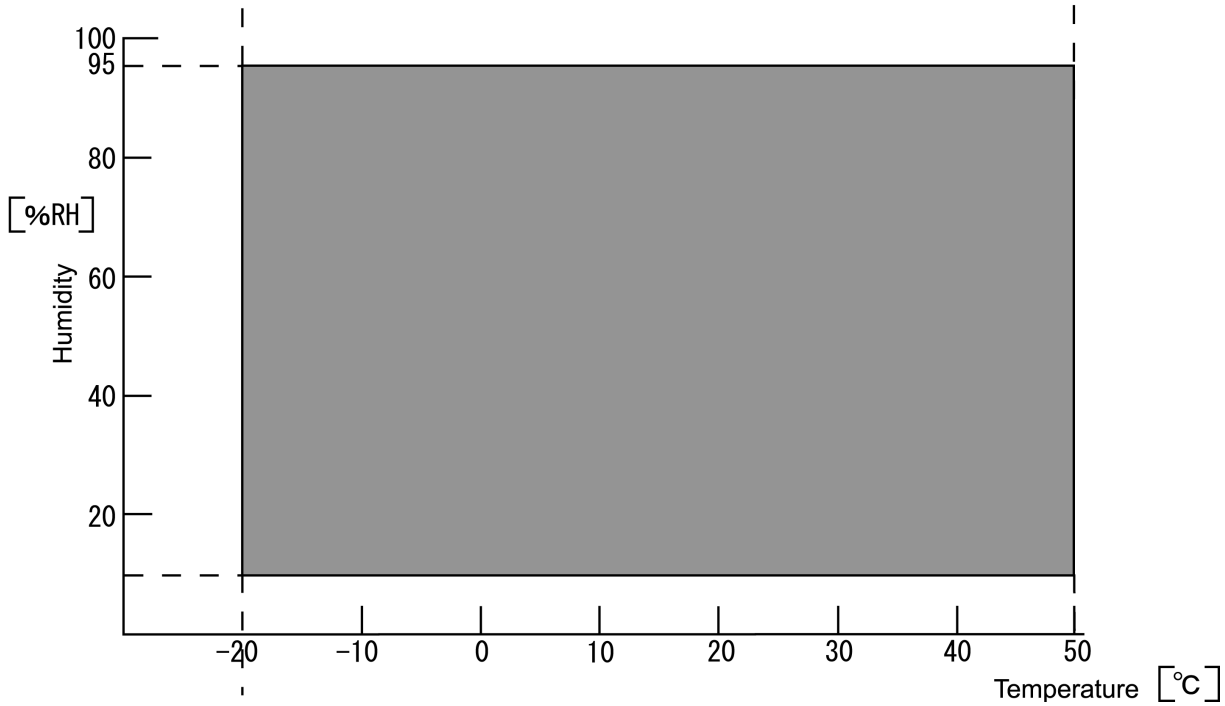
2.1.4 Environmental Condition

Under operational conditions : 10℃ to 35℃/20% to 80%



A Zone : Recommended condition
B Zone : Operation Area

Under non operational conditions : -20℃ to 50℃/10% to 95%



2.2 OTHERS

(1/4)

Model Name	MFC-5200C	MFC-890
TELEPHONE		
Automatic Redial	Yes(once)	Yes
Handset	No	No
One-Touch Dial	0	0
Speed Dial	Max 100	Max 100
Figures of One-Touch & Speed Dial	20 digits	20 digits
Resisterable Number Of Characters	15 char	15 char
Telephone Index	Yes(Normal) (TBD)	Yes(Normal)
Speaker Phone	No(Only Speaker)	No(Only Speaker)
Chain Dialing	Yes	Yes
Caller ID	No	No
Call Waiting Caller ID	No	No
Distinctive Ringing	Yes	Yes
Hold/Mute Key	No	No
Hook Key	Yes	TEL/R key (TBD)
Power Failure Dialing	No	No
Speaker Volume	Yes (3 steps + OFF)	Yes (3 steps + OFF)
Ring Volume	Yes (3 steps + OFF)	Yes (3 steps + OFF)
HandSet Volume	No	No
PBX Feature	No	Yes
Transfer Method	No	flash
FAX		
Internet FAX	LAN Option	LAN Option
Data Modem	N/A	N/A
Easy Receive/Fax Detect	Yes	Yes
Fax/Tel Switch	Yes	Yes
Super Fine	Yes (Only for Black)	Yes (Only for Black)
300dpi Transmission	No	No
Gray Scale	256	256
Contrast	Yes (Auto/S.Light/S.Dark)	Yes (Auto/Light/Dark)
Smoothing	No	No
Call Reservation Over Auto TX	No	No
Password Check	No	No
Enhanced Remote Activate	Yes	Yes
Multi Resolution Transmission	No	No
Multi Transmission	No	No
Next-Fax Reservation	Yes (Dual Access)	Yes (Dual Access)
Delayed Timer	Yes (50 Timer/50 Job)	Yes (50 Timer/50 Job)
Polling	Yes (Std/Seq) RX/TX	Yes (Std/Seq) RX/TX
Quick-Scan key	(Memory TX w/o key)	(Memory TX w/o key)
Scan Speed (A4:Standard)	Approx. 3 sec./page (A4:standard)	Approx. 3 sec./page (A4:standard)
Memory Transmission(Brother#1 Chart)	Yes (480:MMR)	Yes (480:MMR)
Memory Transmission(ITU-T Chart)	Yes (400:MMR)	Yes (400:MMR)
Broadcasting	Yes (150 locations)	Yes (150 locations)
Batch Transmission	Yes	Yes
Auto Reduction	Yes	Yes
Out-of-Paper Reception (Brother #1 Chart)	Yes (480:MMR)	Yes (480:MMR)
Out-of-Paper Reception (ITU-T Chart)	Yes (400:MMR)	Yes (400:MMR)
Dual Access	Yes (B&W Only)	Yes (B&W Only)
ECM(Error Correction Mode)	Yes	Yes
ITU SUB Addressing	No	No
Group Dial	Yes (6)	Yes (6)
Error Re-Transmission	No	No
Station ID	1 (20digits/20char)	1 (20digits/20char)
Off Hook Alarm	No	No
Remote Maintenance	Yes	Yes
Call Reservation Over Manual TX	No	No
RX Mode Indication	Yes:LCD	Yes:LCD
Resolution Indication	Yes:LCD	Yes:LCD
Memory Security	N/A	TX Lock
Color FAX (Document nd/Receive)	Yes/Yes	Yes/Yes
Color FAX (Memory end/Receive)	No/Yes	No/Yes
Manual Broadcasting	Yes	Yes
LCD Language	English	English
Call Manage	N/A	N/A
E-MAIL FAX(Share Media ervice)	N/A	N/A

Model Name	MFC-5200C	MFC-890
LIST/REPORT		
Activity Report/Journal Report	Yes (up to 200)	Yes (up to 200)
Transmission Verification Report	Yes	Yes
Coverpage	Yes	Yes
Help List	Yes	Yes (From MENU)
Call Back Message	No	No
Caller ID List	No	No
Auto Dial List	Yes(From Menu)	Yes (From MENU)
Tel Index List	N/A	N/A
Order Form (from MFC)	N/A	YES(FROM MENU)
INTERFACE		
External TAD Interface	Yes	Yes
Missing Link/PC Interface	No	No
Host Interface (Serial)	No	No
Host Interface (IEEE1284)	Yes	Yes
Host Interface (USB)	Yes	Yes
LAN Interface	Option (10Base-T/100Base-TX)	Option (10Base-T/100Base-TX)
Acceptable Media Card Slot	Smart Media/Compact Flash/Memory Stick	Smart Media/Compact Flash/Memory Stick
Analog Video Port	No	No
PRINTER		
Color/Mono	Color/Mono	Color/Mono
Engine Type	Piezo Ink Jet (4 head BH: 150 nozzles/color)	Piezo Ink Jet (4 head BH: 150 nozzles/color)
Resolution(dpi)	2400x1200 /2400x1200 (Mono/Color)	1200x1200 /2400x1200 (Mono/Color)
Speed(ppm)	20/16 (Mono/Color: 450*150) '10/7 (Mono/Color: 600*300) '3.5/2.5 (Mono/Color: 600*600) '1.2/0.9 (Mono/Color: 1200*1200) '0.6/'0.4(Mono/Color:2400*1200)	20/16 (Mono/Color: 450*150) '10/7 (Mono/Color: 600*300) '3.5/2.5 (Mono/Color: 600*600) '1.2/0.9 (Mono/Color: 1200*1200) '0.4(Color:2400*1200)
Paper Capacity(sheets)	100 (80gsm)	100(80gsm)
Additional Paper Capacity(sheets)	No	No
Output Paper Capacity(sheets)	50	50
Standard Print Language	Windows GDI	Windows GDI
Emulation	N/A	N/A
Resident Fonts	Yes	Yes
Fonts Disk Based	Yes	Yes
Paper Handling Size	LTR, LGL, A4, A5, EXE, Post Card, Photo, Index card	LTR, LGL, A4, A5, EXE, Post Card, Photo, Index card
Manual Feed Slot	Yes (1 sheet feeder)	Yes (1 paper feeder)
Other Paper Type	OHP, Envelopes	OHP, Envelopes
Sheet Weight (Paper Cassette) (Manual Slot)	64-120 g/m2 (17 - 32 lb) 105-185g/m2 (28-49.3 lb)	64-240 g/m2 (17 - 64 lb) Yes
Printer Driver	Win95/98/98SE/Me/2000Professinal/ NT4.0/XP MacOS 8.5.1-10.1	Win95/98/98SE/Me/2000Professinal/NT4.0/XP MacOS 8.5.1-10.1
Utility Software	N/A	N/A
Bundled Cable	No	No
Variable Dot Print	Yes (3 sizes, Min. 5pl)	Yes (3 sizes, Min. 5pl)
Shingling Print	Yes	NO
Color Enhancement	Yes (True2Life)	Yes (True2Life)
COPY		
Color/Mono	Color/Mono	Color/Mono
Speed(ppm)	15/12 (Multiple copies) 12/8 (Multiple documents)	15/12 (Multiple copies) 12/8 (Multiple documents)
Multi Copy(Stack)	Yes (Color) or Via PC	Yes (Color) or Via PC
Multi Copy(Sort)	Yes (Color) or Via PC	Yes (Color) or Via PC
Reduction/Enlargement(%)	25 -- 400 in 1% increments	25 -- 400 in 1% increments
Resolution(dpi)	Max. 1200x1200	Max. 1200x1200
Resolution Indication	LED (Green) -Fast, Normal, Best	LED (Green) -Fast, Normal, Best
N in 1	2in1, 4in1/ B&W, Color: A4, LTR only	2in1, 4in1/ B&W,color: A4, LTR only
Poster	Yes	Yes
Clone	N/A	N/A
Image Enhancement	N/A	N/A
Book Copy Supporter	N/A	N/A

Model Name	MFC-5200C	MFC-890
SCANNER		
Color/Mono	Color/Mono	Color/Mono
Resolution(dpi)(Phisical)	CCD: 600x2400(Opt.)	CCD: 600x2400(Opt.)
Resolution(dpi) (Logical)	9600(Int.)	9600(Int.)
Speed(ppm)	Max. 3sec	Max. 3sec
Gray Scale	256	256
TWAIN Compliant&Operating System	Win95/98/98SE/Me/2000Professinal/ NT4.0/XP(WIA) MacOS 8.6-9.2	Win95/98/98SE/Me/2000Professinal/NT4.0/ XP (WIA)/MacOS 8.6-9.2
PCI Scanner (Parallel/Serial)	Parallel/ USB	Parallel/ USB
E-MAIL Scan Key	No	No
OCR Scan Key	No	No
Scan Key	Yes (Windows Only) + Scan-to-Image/OCR/ E-mail/Card	Yes(Windows Only)+scan-to-Image/ OCR/E-mail/Card/LAN
Color Depth	36bit-color processing (24bit external)	36bit-color processing (24bit external)
Pre Feeding	No	No
Consecutive feeding on ADF	Yes (Windows&Mac)	Yes (Windows&Mac)
MESSAGE CENTER/MESSAGE MANAGER		
ICM Recording Time	N/A	N/A
Page Memory	N/A	N/A
OGM (MC;MC Pro;Paging;F/T)	N/A	N/A
TAD Type	N/A	N/A
Memo/Recording Conversation	N/A	N/A
Fax Forwarding	Yes (B&W only)	Yes (B&W only)
Fax Retrieval	Yes (B&W only)	Yes (B&W only)
Paging	Yes	Yes
Remote Access	Yes	Yes
Toll Saver	N/A	N/A
MESSAGE CENTER Pro/MESSAGE MANAGER Pro		
Fax/Voice Mail Box	N/A	N/A
Fax/Voice on Demand	N/A	N/A
MESSAGE CENTER (PC MC)		
Fax Forwarding	N/A	N/A
Paging	N/A	N/A
ICM Recording Time	N/A	N/A
OGM MC;MC Pro;Paging	N/A	N/A
Fax/Voice Mail Box	N/A	N/A
Fax/Voice on Demand	N/A	N/A
VIDEO CAPTURE		
Video Capture	N/A	N/A
Video Print	N/A	N/A
Video Format	N/A	N/A
Video Fax	N/A	N/A
PHOTOCAPTURE CENTER		
Acceptable Media	Smart Media (3.3V) Compact Flash (Type-1/2) Memory Stick	Smart Media (3.3V) Compact Flash (Type-1/2) Memory Stick
Print	Yes(Color)	Yes(Color)
Media format	DPOF, Exif, DCF	DPOF, Exif, DCF
Image format	TIFF/JPEG/PDF (Scan-to-Card)	TIFF,JPEG,PDF(scan-to-card)
Color Enhancement	Yes	Yes
Media Drive	Yes (USB Only)	Yes (USB Only) Win98/98Se/ME/ 2000/XP/Mac9.0-10.1

Model Name	MFC-5200C	MFC-890
Network Specifications		
Standard/Option	Option	Option
Model Name	NC-8100h	NC-8100h
Support OS version	Win95/98/98SE/Me,WinNT4.0/2K	Win95/98/98SE/Me,WinNT4.0/ 2000Professional/XP
Support OS version	Novell NetWare 3.X,4.X,5.X	Novell NetWare 3.X,4.X,5.X
Network connection	Ethernet 10/100BASE-TX Auto Negotiation	Ethernet 10/100BASE-TX Auto Negotiation
Support Protocols	TCP/IP, IPX/SPX, AppleTalk, DLC/LLC	TCP/IP, IPX/SPX, AppleTalk, DLC/LLC
TCP/IP Protocols	RARP, BOOTP, DHCP, NetBIOS, WINS	RARP, BOOTP, DHCP, NetBIOS, WINS
TCP/IP Protocols	LPR/LPD, Port9100, SMTP/POP3	LPR/LPD, Port9100, SMTP/POP3
TCP/IP Protocols	SMB(NetBIOS/ IP), IPP, FTP	SMB(NetBIOS/ IP), IPP, FTP
TCP/IP Protocols	TELNET, SNMP, HTTP, TFTP	TELNET, SNMP, HTTP, TFTP
Network Management	BRAdmin Professional	BRAdmin Professional
Network Management	Web Based Management (Reading)	Web Based Management (Reading)
Network Management	MIB-II as well as Brother private MIB	MIB-II as well as Brother private MIB
Format (Scan to LAN)	JPEG/PDF/TIFF	JPEG/PDF/TIFF
BUNDLED SOFTWARE (For Windows)		
Printer Driver	Brother	Brother
TWAIN	Brother	Brother
Veiwer	Scan Soft	Scan Soft Paper Port 8.0 (Win95-XP)
PC Fax	Brother PC Fax (B&W Sending/Receiving) Win95/98/98SE/Me/2000Professinal/NT4.0/XP	Brother PC Fax (B&W Sending/Receiving) Win95/98/98SE/Me/2000Professinal/NT4.0/ XP(Microsoft PC-Fax)
Others	N/A	N/A
Formats(Import)	MAX/BMP/PCX/DCX/JPG/TIF/PNG/FPX	MAX/BMP/PCX/DCX/JPG/TIF/PNG/FPX
Formats(Export)	MAX/HTM/BMP/PCX/DCX/JPG/TIF/PNG/FPX	MAX/HTM/BMP/PCX/DCX/JPG/TIF/PNG/FPX
OCR	Yes(ScanSoft TextBridge)	Yes(ScanSoft TextBridge)
Pop Up Menu	Yes	Yes
Remote Setup	Yes	Yes
PC Diagnostics	Yes	Yes
BUNDLED SOFTWARE (For iMAC/iBook/G3/G4)		
Printer Driver	Brother	Brother
TWAIN	Brother	Brother Mac OS 8.6-9.2
Veiwer	Scan Soft (Mac OS8.6)	No
PC Fax	Brother PC Fax (B&W Sending) MacOS 8.5.1-9.2	Brother PC Fax (B&W Sending) MacOS 8.5.1-9.2
Others	No	No
Formats(Import)	-	-
Formats(Export)	-	-
OCR	MacOS 8.6	No
Pop Up Menu	No	No
Remote Setup	Yes(MacOS Xv.10.1)	Yse (OS Xv.10.1)
PC Diagnostics	No	No
ACCESSORY		
Cartridge	4 colors (each separate tank)	4 colors (each separate tank)
Life / Yield (Draft, 5% Coverage)	BK: 950, CL: 450	BK: 950, CL: 450
cable	No	No

CHAPTER 3

INSTALLATION

CHAPTER 3 INSTALLATION

CONTENTS

3.1 CONDITIONS REQUIRED FOR INSTALLATION 3-1

3.1.1 Environmental Conditions 3-1

3.1.2 Basic Layout of machine Set-up Location 3-1

3.2 UNPACKING THE MACHINE 3-2

3.3 INSTALLATION WORK 3-3

3.3.1 Removing the Protective Parts 3-3

3.3.2 Attaching the Paper Supports 3-4

3.3.4 Install Phone Line and Power Cord 3-5

3.3.5 Installing the Ink Cartridges 3-6

3.3.6 Color Block Quality and Alignment Check 3-8

3.1 CONDITIONS REQUIRED FOR INSTALLATION

Any machine is likely to be influenced by the environment of the set-up location. If the machine is set-up in an inappropriate location, the machine may not perform as expected. Therefore, the following factors should be taken into consideration before deciding where to set-up the machine.

3.1.1 Environmental Conditions

The machine should not be set up in the locations referred to in the following items (a) through (d) which specify inappropriate locations for set-up.

(a) Where it is likely to receive direct sunlight or similar light. (For example, next to a window)

(b) Where it is likely to suffer a big difference in temperature and humidity between the maximum and minimum levels. (Normal operation environment is within 10 ˚C to 35 ˚C, 20 to 80%RH and without any condensation.)

(c) Where it is likely to be in a draft of cold air from an air-conditioner or warm air from a heater, or to receive direct radiant heat.

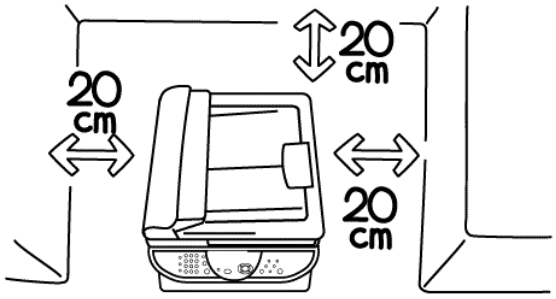
(d) Where it is likely to be excessively dusty or be subject to corrosive gases such as ammonia.

(e) Users should select a location with good ventilation and set the machine on a flat surface.

(f) Users should check that the maximum angle of the set-up location is horizontal to within 1 ˚ .

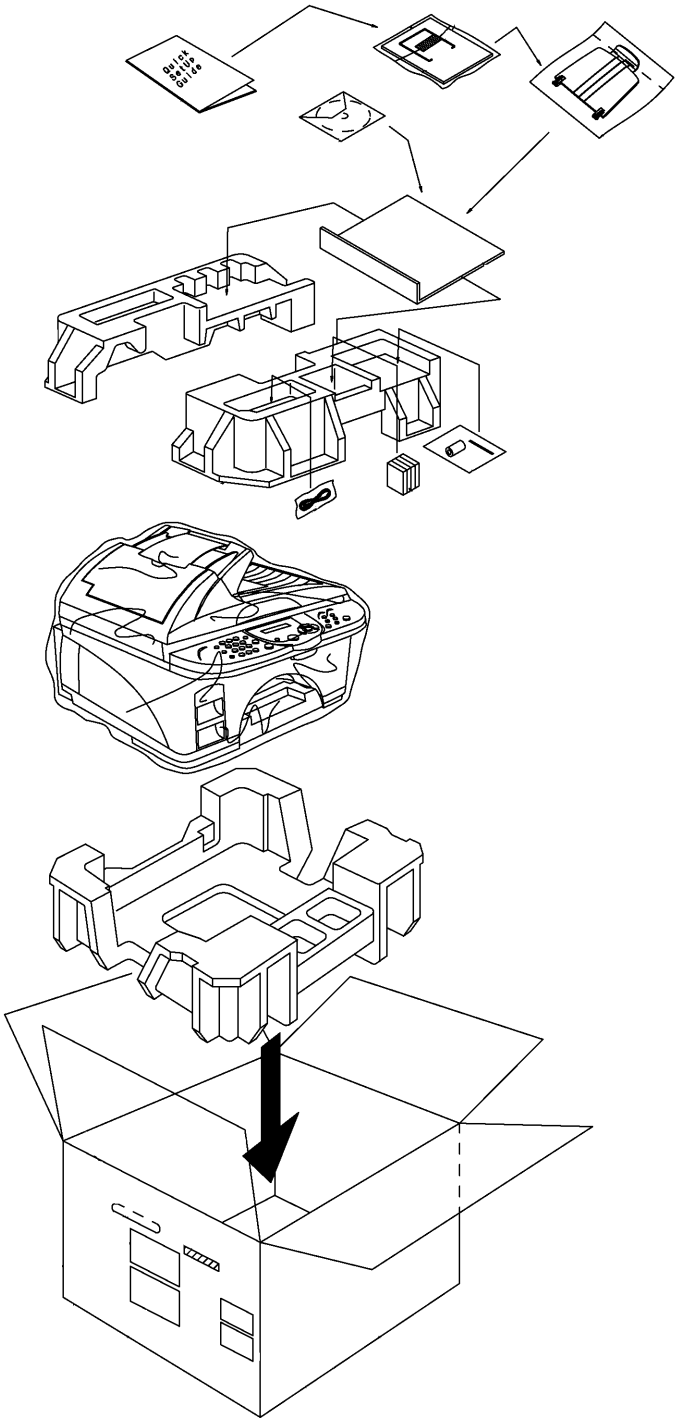
3.1.2 Basic Layout of machine Set-up Location

Shows the basic layout of the machine set-up location that is suitable for smooth.



3.2 UNPACKING THE MACHINE

The equipment consists of the following major components:

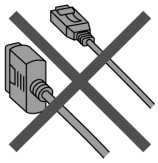


3.3 INSTALLATION WORK

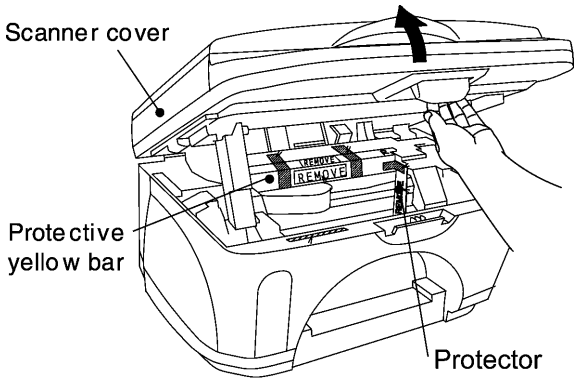
3.3.1 Removing the Protective Parts

Do NOT connect the interface cable.

Connecting the interface cable is done when installing the driver.

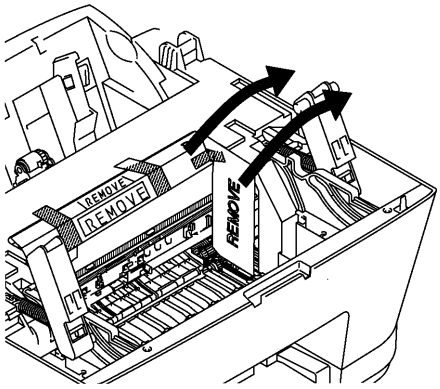


(1) Remove the protective seals.



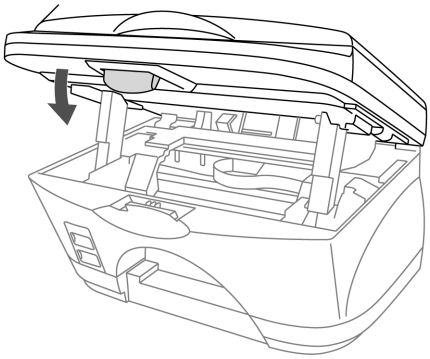
(2) Open the scanner cover by pulling the release lever towards you.

(3) Remove the protector and the protective yellow bar.



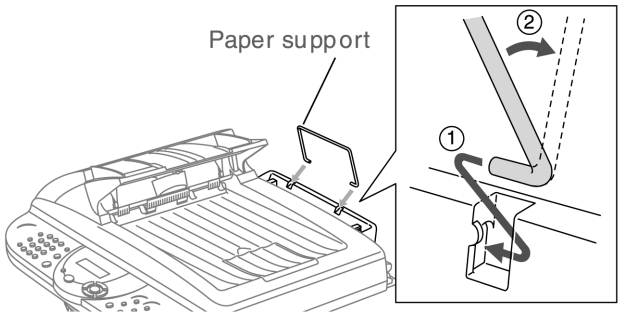
Do not throw away the protective yellow bar. You will need it in the future to transport the machine.

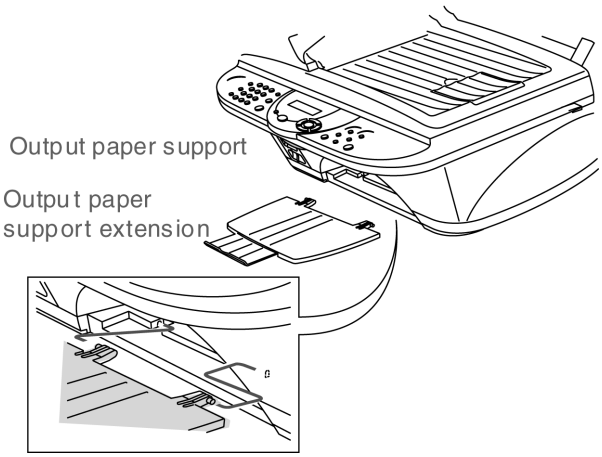
(4) Close the scanner cover.



3.3.2 Attaching the Paper Supports

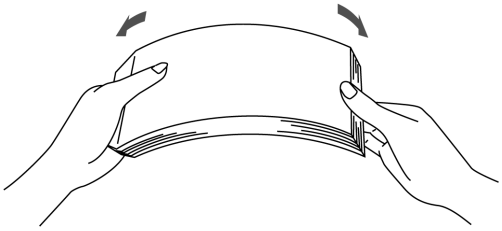
(1) Attach the paper support to the paper tray.





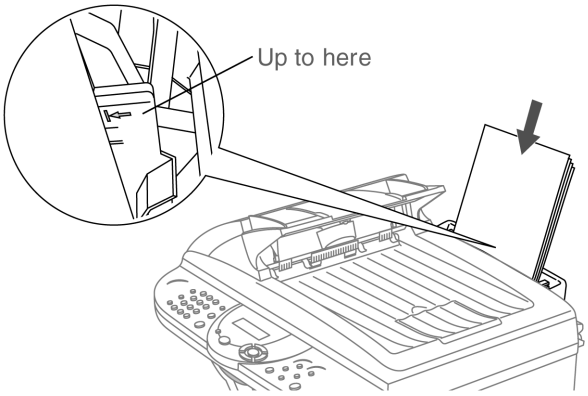
(2) Attach the output paper support to the paper output slot, and then pull out the extension.

3.3.3 Load Paper



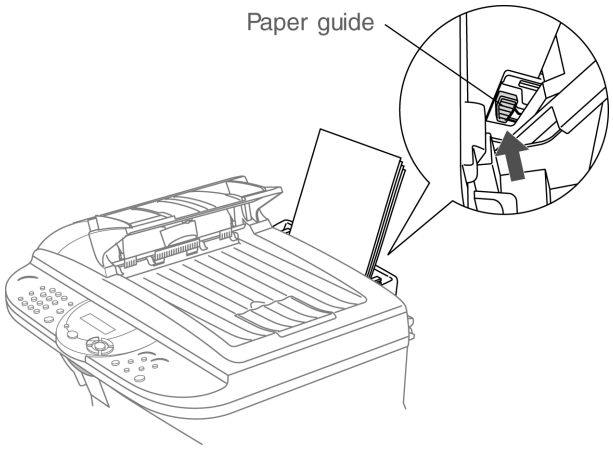
(1) Fan the stack of paper well to avoid paper jams and misfeeds.

(2) Gently insert the paper.



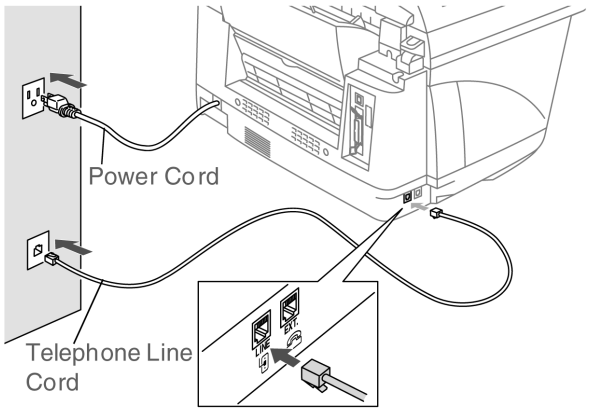
Make sure the print side is towards you and the paper is below the maximum paper mark.

(3) Press and slide the paper guide to fit the paper width.



3.3.4 Install Phone Line and Power Cord

(1) Connect the power cord.



(2) Connect one end of the telephone line cord to the jack on the machine marked **LINE** and the other end to a modular wall jack.

Product: 2002 Brother MFC5200C/MFC890 FACSIMILE EQUIPMENT Printer Service Repair Workshop Manual
Full Download: https://www.arepairmanual.com/downloads/2002-brother-mfc5200cmfc890-facsimile-equipment-printer-service-repair-workshop-manual/

3.3.5 Installing the Ink Cartridges

⚠ WARNING

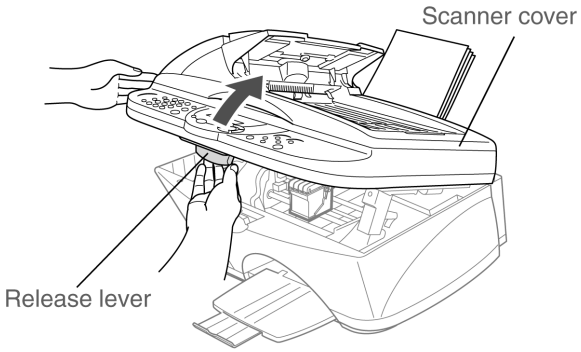
If ink gets in your eyes irrigate them with water immediately, and if irritation occurs consult a doctor.

(1) Make sure that the power is turned on.

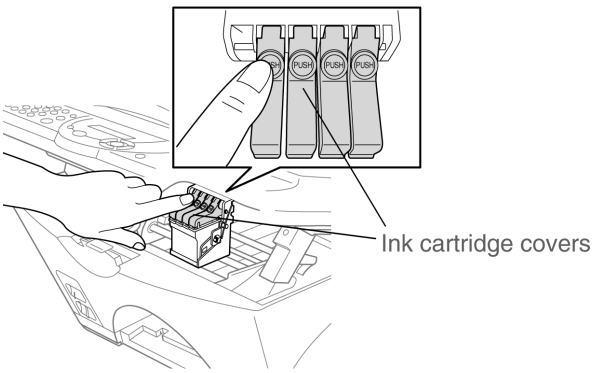
The LCD shows;

CHECK CARTRIDGE Open cover, then...

(2) Open the scanner cover by pulling the release lever towards you.

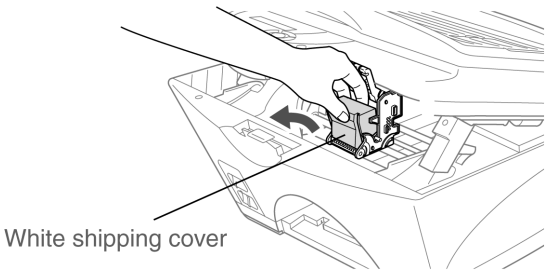


The print heads will move to the ink replacement position.



(3) Push the four colored ink cartridge covers one at a time so they pop up.

(4) Remove the white shipping cover by pulling it towards you.



The bottom of the white shipping cover is wet with ink that will cause stains, so wipe it clean before you place it down.

Do not throw away the white shipping cover. You will need it when you transport the machine.

Sample of manual. Download All 294 pages at:
https://www.arepairmanual.com/downloads/2002-brother-mfc5200cmfc890-facsimile-equipment-printer-service-repair-works