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As laser printers consume power to keep the fixing assembly at a high temperature, this feature can save electricity when the printer is on but not being used. The factory setting of the Power Save mode is ON that complies with EPA Energy Star new specification. Two sets of user settings can be stored. For programming with the printer, see this manual which is available from your Brother dealer. The following commercial products can be installed into this printer MIO Card. Power Cord Upper Paper Cassette installed inside the printer Fig. 21 Components in the Printer Carton Note An interface cable is not a standard accessory. Caution The toner cartridge is packed inside a bag. Do not open it now. Open it immediately before you install the toner cartridge. Do not place objects on top of the printer, especially on the air exit. Ventilate the room where you use the printer. To open the printer, hold both sides of the top cover and raise it upwards until it latches. Fig. 25 Opening the Top Cover To close the printer, lower the top cover and push both sides gently until it latches. Remove the protective parts that secure the printer against damage during transportation, as shown below Note Keep all packing materials for transporting or storing the printer later. You have one toner cartridge as standard. A new cartridge contains enough toner to print approximately 9,000 A4 or lettersize singlesided pages at about 5% coverage if the print density is set at level 8. This distributes the toner evenly inside the cartridge. 4. Bend the tab up and down several times until it is detached from the toner cartridge. Note Push both sides of the toner cartridge gently until the cartridge is seated in its place. The printer continues or stops printing. This section refers to the

upper paper cassette. For information about the lower paper cassette, see "LOWER TRAY UNIT" in Chapter 5. Backwards letter, legal, A4, ISO B5, Executive and A5 Forwards ISO B6, A6, COM10, Monarch, C5 and DL Fig. <http://geose.ru/userfiles/3w106-manual.xml>

215 Switching the Adjustment lever by Paper Size 3. Note You can check the remaining paper with the paper indicator located on the front right of the paper cassette. The leading edge must be placed inside first and lightly against the printer. The left side must be aligned with the left guide. The top of the paper stack must be under the holders on both sides of the tray. Computer Fig. 221

Connecting the Printer and Computer 4. Connect the other end of the interface cable to the interface connector on your computer. Be sure to secure the connection on the computer, also. Pressing the OFF side "O" turns the power off. Wait until the display shows the message as follows. The printer starts printing the selected test pattern or list. When the printer finishes printing, it automatically exits to the offline state. Each software package differs in the way the printer driver is selected. Read the software manual and follow the setup or installation procedures. When any other HP LaserJet series printer driver is installed, select the HP LaserJet emulation mode. Since the HP LaserJet mode takes the highest priority in the automatic emulation selection, you can start using the printer as it is with the factory settings in most cases. Since the factory setting is the EPSON emulation mode, you might need to select the IBM emulation mode with the EMULATION switch when you need to use this emulation. When the printer receives data from the computer, it automatically selects the bi directional parallel, Universal Serial Bus USB interface HL1660e only, RS232C serial interface, or MIO interface as appropriate. When you use the parallel interface, you can turn the highspeed and bi directional parallel communications on or off with the MODE switch. Since this printer has a memory, you can store the panel switch settings in the memory as "User Settings." They are recalled every time you turn on the printer. You can set the paper feed mode and the paper size with the FEEDER switch. For.

Push down the knob located inside the rear paper slit on the left of the paper path selector guide. Fig. 37 Face Up Print Delivery The printer ejects paper through the rear paper slit with the printed page face up. The display can show various messages with up to 16 characters. The lamps light to indicate the current printer status. Pressing the FORM FEED switch prints the data and clears the buffer. When the printer is online, the ON LINE lamp lights and the printer is ready to receive data from the computer. When the printer is off line, the ON LINE lamp is off. If the printer is not in auto emulation mode, the LCD displays the current emulation by pressing the SEL key to take it offline, but you cannot enter other emulation modes. To make settings in other emulation modes, press the EMULATION switch and select the emulation. The mode menus and settings vary according to the current emulation mode and options. For details, refer to the pages indicated in parentheses. HP LaserJet, EPSON BRScript Mode FX850, and IBM Proprinter XL Modes INTERFACE MODE. Note The mode menus and settings that can appear vary according to the current emulation mode, printer status, and any options that may be installed in the printer. Mode Menu Setting Menu. Note The mode menus and settings that can appear vary according to the current emulation mode, printer status, and any options that may be installed in the printer. Mode Menu Setting Menu. Note The mode menus and settings that can appear vary according to the current emulation mode, printer status, and any options that may be installed in the printer. Mode Menu Setting Menu. The first mode menu appears on the display. An asterisk appears at the end of the display for a short time. If the installed MIO card requires any optional interface settings, they appear under this menu. Set them, referring to the manual of the MIO card. It does not work in other emulation modes. This printer can print pages in portrait or landscape orientation.

You can check the current orientation on the display. PORTRAIT When you enter the setting mode, the display first shows the current orientation with an asterisk. No line feed and carriage return occur when the printer position reaches the right margin. Form feed occurs when the printer

position reaches the bottom margin. Set the left margin at column 0126 at LEFT M 0C P. It is recommended that you perform a test before actual use for this test, you could use a letter or A4 size of paper to see the printed area is completely inside the paper size you are going to use. For example, when lettersized paper is used, the printer can print 60 lines per page in portrait orientation. If the orientation is changed, the line settings are restored to the factory settings in that orientation. The software or command setting overrides the switch setting. Select the setting menu and enter the subsetting menu to make the settings as follows Pen Setting. Character Set When you select "CHARACTER SET,". You can set the resolution in this mode according to your requirement. The printer may not be able to print large files because of the resolution and the printer's memory. However, it automatically decreases the resolution to 300 dpi to print them. This function offers photographic fine grayscale on graphics. APT setting is available only at 600 dpi resolution in BRScript 2 mode and it requires 6 MB of RAM to enjoy APT printouts. If this occurs, the printer loses print data and shows the following message 31 PRINT OVERRUN. They do not appear when the printer has no card or is in any other emulation mode. If the write protect switch of the flash memory card or the HDD card is on, this mode menu does not appear. After you send the form to the printer, you may save the form in the flash memory as a Macro. Then the next time you want to print this form, you would setup your FORMS software package to SEND DATA ONLY USE FORM IN PRINTER.

You can check the contents and the unused capacity of the card. The printer is reset to ensure as much capacity as possible in RAM. If any data remains, it is printed out first. If you have downloaded a macro in the printer's memory, you can save the macro on the installed flash memory card or HDD card. If a macro has been downloaded in the printer's memory and you press the SET switch at "SAVE MACRO,". If you have downloaded a font into the printer memory, you can save it on the flash memory card or the HDD card. The printer prompts you to select the ID number of the data to be deleted. Select the ID number with the so that the printer deletes the selected data. You need to print out the remaining data with the FORM FEED switch. See "FORM FEED Switch" in Chapter 4. When the printer is used in the network environment, it may print a blank page at the end of each print job. When you turn on this function, the printer does not print blank pages. It does not appear in any other emulation modes. If any errors occur and the buzzer is turned on, the printer beeps to alert you. If it is turned off, it does not sound to alert you. The setting takes effect the next time you turn on the printer. Two sets of user. When you enter this mode, the display shows the number for a short time and automatically moves to "exit MODE" menu. EXIT MODE When you finish setting your desired item in the mode menus, advance to the following message Press the SET switch to exit from the mode menus to the offline ready state. The display shows the following menu. 3. Press the menu. CHAPTER 4 CONTROL PANEL Font Source Internal font of the printer Optional card font in the upper slot Optional cartridge font in the lower slot B Permanent download font defined in the HP emulation mode See "TEST switch". The steps you follow vary according to the font type, scalable or bitmapped. If you select a resident bitmapped font Letter Gothic 16.

66 or optional bitmapped fonts, the display shows the symbol set setting menu. Note When you have selected fixedpitch fonts, you set the font size by the character pitch width. When you have selected proportional spacing fonts, you set the font size in points height. The display shows the font setting menu. You can skip the font setting menu and advance to the character set setting menu with the switch. CHAPTER 4 CONTROL PANEL Font Source Internal font of the printer Optional card font in the upper slot Optional cartridge font in the lower slot B. The steps you follow vary according to the font type, scalable or bitmapped. If you select a resident bitmapped font Letter Gothic 16.66 or optional bitmapped fonts, the display shows the character set setting menu. The italic or oblique indication can appear after any style indication "BdIt" indicates a bold italic font, "LtIt" indicates a light italic font, etc. Press the SET switch to make the displayed selection effective, then the display shows the font size setting menu. Display Message BROUGHAM LETTERGOTHIC OCRA OCRB

LETTERGOTH16.6 LTRGOTH16 LTN2 LTRGOTH16 LTN5 LTRGOTH16 LTN 6 PcTENNESSEE
OKLAHOMA CONNECTICUT CLEVELAND Cd PcBRUSSELS UTAH UTAH CONDENSED
AntiqueOAKLAND GUATEMALA MARYLAND. You can use this function in order to recover printing
when a paper jam has occurred. If you set the mode to AUTO, the printer attempts to resume the
operation without pressing the CONTINUE switch. SHIFT Switch When you hold the SHIFT switch
down with the printer offline, you can change settings with the panel switches in the SHIFT mode.
Since the shift state is not locked, you need to hold it down and press the switch to get access to the
corresponding shifted function labeled under the switch. The printer can select the emulation mode
automatically when it receives data from the computer. When you want to set the emulation mode
manually, hold down the SHIFT switch and press the EMULATION switch.

You can set it from 1 second to 99 seconds the factory setting is 5 seconds. Note The "KEEP PCL"
function reserves free space in the printer's memory and may cause a memory full error. Average
users do not need to know much about PostScript. When the power save mode is turned on, the
printer turns on the fixing assembly again after it receives data from the computer. Since the fixing
assembly must reach the specified high temperature, it takes a little longer time to start printing the
first page. When you enter the setting mode, the display first shows the current feeder setting with
the asterisk. This allows your print job to continue without error if one of the paper trays becomes
empty. The printer will automatically select another tray if one tray becomes empty. Press the SET
switch again, so that the printer exits from the setting mode to the offline state. When you select
"AUTO", the tray selection menu for the auto paper feed appears on the display. The display then
shows the current setting with an asterisk REGULAR 3. Press the switch to select regular, thick
paper, or transparency. 4. Press the SET switch to make the setting effective. Notes Please do not
forget to change the setting back after you print your special media with the setting changed. The
printer exits from the setting mode to the offline state. 5. Press the SET switch again to exit the
FEEDER switch setting mode to the printer offline state. To set the number of copies, follow these
steps 1. The print data that the printer has already received from the computer is cleared and the
printer settings are restored to the user settings or factory settings. List of Factory Settings The
following table shows the factory settings initially set before shipment. To do so, hold down the
SHIFT switch and press the TEST switch. You will then enter the test mode where you may test the
printer or print out the list of fonts.

The printer prints out the test patterns or lists according to the selected test mode. When the
"DEMO PAGE" mode has been selected, the display shows the following message and the printer
starts printing out the demonstration pattern. The display may look like this 06 PRINT FONTS I
When the printer finishes printing, it automatically exits from the test mode to the offline state. The
printer lists the print data in hexadecimal form. To enter the hex dump mode, follow these steps 1.
Or turn off the printer, wait for a few seconds, and turn it on again. If data remains in the printer
memory, the DATA lamp stays on. The printer automatically selects the font that has exactly the
same or similar characteristics as those you set through the software or with a command. Slot A or B
Font ID Number Fig. 53 Font ID Numbers on the Font List 3. Select the font with the FONT
switch. Note Be sure to turn off the power to the printer before installing or removing the MIO card.
The memory can be expanded up to 72 Mbytes by installing commercially available single inline
memory modules SIMMs. The standard memory fitted can vary depending on the printer model and
country. Screw Yellow Fig. 57 Removing the Metal Cover 6. If the display shows the following
message, the printer has almost run out of toner or the toner is not evenly distributed inside the
cartridge. 16 TONER EMPTY. Dip the cloth in water and wring it out thoroughly for cleaning. If you
wash them in hot water, toner gets dissolved inside the material and it will not come out. CHAPTER
6 MAINTENANCE Transfer Guide Paper Access Cover. If you cannot clear the problem, consult the
dealer where you purchased the printer. Inform the dealer of the message number for quick
troubleshooting. If the same error should occur after you press the CONTINUE switch, turn off the

printer. Wait a few seconds, then turn it on again. Reduce the input buffer size. See page 446. Card read error Use a new card.

If the same error occurs, consult your dealer or service personnel. Paper of incorrect size is Set the correct size of paper in loaded into XX. CHAPTER 7 TROUBLESHOOTING Action Turn off the printer. Wait 15 minutes, then turn it on again. Turn off the printer. Wait a few seconds, then turn it on again. Paper Jam If paper jams in the printer, it stops printing and displays the following message. Notes If paper jams frequently occur, check the adjustment lever located in the bottom of the paper cassette or clean the printer interior and check the paper quality. Check the jam location and follow the instructions below to remove the jammed paper. After you have followed the instructions, the printer automatically resumes printing. Caution Do not pull out the upper paper cassette while paper is being fed from the lower paper cassette, or it causes a paper jam. This may be due to temperature, humidity or other variables over which the printer has no control. If you cannot clear print problems, consult the dealer where you purchased the printer. This distributes the toner evenly inside the cartridge. 4. Install the toner cartridge and close the top cover of the printer. 5. Print out several pages. If you are still not satisfied with the printout, replace the toner cartridge with a new one. See "Cleaning" in Chapter 6. Here come Pappop,he come. One thing I can tell you is you go to be free. Come together right now, over Here come Pappop,he come. Never use heatsensitive paper, or it may cause this problem. Fig. 714 Black Page White Page If nothing is printed on pages, make sure that the toner cartridge is not empty, the sealing tape is removed from the toner cartridge, or you use paper, OHP films, or envelopes that meet specifications. Take the proper action, Also, make sure that you use paper, OHP films or envelopes that meet specifications. You can use the system to send the information to any fax machine, not just the one you are calling from.

However, some paper variables may have an effect on print quality or handling reliability. Always test samples of paper before buying to ensure that it provides desirable performance. Purchase quality envelopes only from a supplier who understands that the envelopes will be used in a laser printer. All envelopes should be tested prior to use to ensure desirable print results. Labels should have an adhesive that is acrylic based since such material is more stable at the high temperatures in the fusing unit. Most existing parallel cables support bi directional communication, but some might have incompatible pin assignments or may not be IEEE 1284 compliant. Pin Assignment Pin No. Parallel 8 bit data Data reception is completed and the printer is ready for the next data reception when this signal becomes low. The printer cannot receive data when this signal is high. Request To Send. "SPACE" level when the printer is ready to send data to the computer.Printer Male DR DSR ER DTR DB25 Serial Connection When you use a computer with a 25pin serial port, use a cable with the following pin configurations. The numbers at the top of the table are hexadecimal code values with which characters are to be replaced in the US ASCII character set. For other characters, see the US ASCII character set.For further information about commands, refer to the "Technical Reference Manual," which is optionally available. Note l represents the lowercase l letter. Script notation is used because lowercase l and the number 1 can be easily confused with each other. We recommend that the installed printer memory is 10 Mbytes or more for 1200 dpi printing. The following 11 bits then indicate the number of words of data, and the least significant 4 bits are not used. After that, the image data follows word by word. All original data received so far will be printed and the page ejected.All original data received so far will be printed and the page ejected.

When the EAN 8, EAN 13, UPCA, Code 128 or EAN 128 bar code mode is selected, this bar code style parameter is ignored. Human readable characters are always printed with OCRB font of 10 pitch and all the current character style enhancements are masked. Bar code data must end with the ". If the check digit is incorrect, the printer calculates the correct check digit automatically so that the correct bar code data will be printed. This information is vital to the service technician in

maintaining the high printing quality and performance of the printer. This manual consists of the following chapters Chapter I General. I6 CDRH Regulations 110 120V Model only. I7 Additional Information. I7 PARTS OF THE PRINTER. I8 External Views. III2 Engine Controller Circuit. III7 PAPER FEED DRIVE CIRCUIT. III9 DISPLAY CIRCUIT. III11 Outline. III11 Operation. III11 LOWVOLTAGE POWER SUPPLY ASSY. III12 Outline. The printer is compact and easy to carry. The internally storable, frontloading paper cassette enables you to save an occupation space for the machine; the printer can now be installed in a smaller place. The tables below shows the effective printable area for each paper size. Table 1.1 Plain Paper SIZE A mm MANUFACTURED BROTHER INDUSTRIES, LTD. 151, Naeshirocho, Mizuhoku Nagoya 467, Japan. This product complies with FDA radiation performance standards, 21 CFR chapter 1 subchapter J. EPED cartridges should be handled carefully. Striped conduits indicate mechanical linkages; solid thin arrows appearing with a signal name indicate the transmission of single control signals and outlined thick arrows indicate the transmission of groups of signals. The main motor is controlled by the main motor drive signal MDRIVE output from the main PCB, and the paper feed motor is controlled by the paper feed motor drive signal output from the main PCB, and the scanner motor is controlled by the scanner motor drive signal SDRIVE output from the main PCB.

Power on Print WAIT STBY PRINT STBY Ready lamp 170 C 170 C control 190 C control control Fixing heater Main motor Scanner motor Paper feed motor 0.15 sec 0.15 sec 1.88 sec 1.73 sec. The print information, after input from the video controller circuit into the engine controller circuit as a TVDO signal, forms a toner image on the photosensitive drum. The printer uses the charging method that directly charges the drum for the primary charge. This makes a visible image. This printer uses the toner projection development method with a single component toner. Step 3 Development Blade. Step 4 Transfer Photo sensitive Paper drum Transfer charging roller Figure 2.13 A positive charge applied to the back of the paper attracts the negatively charged toner particles to the paper. In the fixing stage, the toner image is fixed by heating the paper and applying pressure. This fuses the toner particles to the paper to make a permanent image. After the drum surface is charged negatively by the primary charge roller, the laser beam modulated by a DATA signal scans the drum surface to form a latent image on the drum. When the engine controller circuit receives PRNT or PRFD signal from the video controller circuit, the paper feed motor starts rotation. Cassette feed Tray1 paper empty sensor MP tray feed MP tray paper empty sensor 2 The pickup roller solenoids are different. A paper jam is detected by whether the paper is present at the sensor at the check periods programmed in the engine CPU memory. If the engine CPU detects a paper jam, the main motor, paper feed motor and scanner motor is turned off immediately and the jam status is transmitted to the video controller circuit. The control panel is connected to the Main PCB and its functions are as follows 1 The LCD shows the printer status and error message in alphanumeric characters. 2 The LED lamps indicate the operating conditions of the printer.

When the power switch SW1 is turned on, AC power is supplied to the lowvoltage power supply assy. Always turn off the power before replacing parts or units. When having access to the power supply, be sure to unplug the power cord from the power outlet. Be careful not to lose screws, washers, or other parts removed for parts replacement. Screw Hook Font cover assy Hook Figure 4.4 1.5 Upper Cover Assy, Rear Cover Assy 1.5.1 Upper cover assy, rear cover assy 1 Loosen the 4 screws on the rear the upper 2 screws secure also the upper cover . Screw Fan connector Figure 4.9. PCB holder Screws Figure 4.12 4 Remove the switch flat cable 21P and the feed flat cable 20P. 5 Remove the fan harness 3P, the fuser harness 4P, the SCN harness 4P, the SCN flat cable 6P, the DC motor harness 4P, the HV harness 16P and the LV harness 8P. Caution Do not disassemble the scanner unit, it can be only adjusted at the factory. Paper feed chassis unit Screws Screws Note When installing the paper feed chassis unit, screw the left chassis of this paper feed chassis unit, set the paper tray, displace the right chassis of this unit up to the paper tray and screw them. Paper feed chassis unit Figure 4.23 1.13 Separation Pad Assy 1 Remove the paper pickup roller assy and roller

collar. Refer to subsection 1.22 2 Remove the separation pad assy by pulling it out from the paper feed guide upper. Paper feed guide upper Paper pickup roller assy Separation pad assy. Tabs 2 solenoid harness connector. Regist sensor actuator Regist sensor actuator Figure 4.29 1.18 MP Paper Detection Actuator 1 Remove the actuator by removing the 2 bearings from the roller holder. This operation should be carried out with the PCB removed. PE sensor actuator tray, PE actuator link, DU detection actuator Remove the PE actuator link from the PE sensor actuator tray. MP paper pickup gear 35 Bearings Paper pickup roller shafts Tray paper pickup gear 35 Figure 4.

34 2 Loosen the bearing screws and pull out the paper pickup rollers. Paper pickup solenoid Screw Paper pickup solenoid Screw Figure 4.37 1.24 Paper Feed Motor Assy 1 Pull out the paper feed motor assy by loosening its 2 screws. Screw Paper feed motor assy Screw. Paper feed chassis unit Hook MP tray cover Hook MP extension tray Figure 4.40 2 Remove the MP extension tray from the MP tray cover by bending the former. MP extension tray MP tray cover Figure 4.41. MP tray assy Fixing bushes Figure 4.43 4 Remove the MP tray assy from the MP release plate bending its bosses. The MP tray can be easily removed if it is slanted. Boss MP release plate MP tray assy. Paper feed guide upper Latch Hook Hook Figure 4.46 1.29 Fixing unit for both 120V and 230V, the only difference is the halogen heater The fixing unit can be disassembled even after removing the rear cover in section 1.6. Fixing unit Heater support spring Support spring Pull Heater Push Halogen heater Halogen heater Figure 4.49. Paper delivery actuator Fixing unit cover Figure 4.52 Remove the fixing heat insulation cover by loosening the 2 screws, the pressure roller spring and pressure roller bearing on both sides, and the pressure roller. Screws Pressure roller bearing Heat insulation cover. Resin spacers Screws Highvoltage power supply PCB assy Resin spacers. Toner cartridge lid EPED Cartridge Figure 4.65 1.36 Paper Tray 1 Release the roller holder fixing pawl and remove the roller holder by pulling it out upward. 2 Remove the roller. Screws Tray gear holder Gear 56T link Figure 4.67 IV 26. These tools are commercially available on the market. Table 5.2 Description Remarks Tool box Lead cable Feeler gauge Compression spring scale 0 1kg For checking cassette spring strength Phillips screwdriver M4, M5. The printer is installed on a solid, level surface. If any message is shown, see Section 4 for troubleshooting. If an incorrect image is found, see Section 3.1 to determine the defect type and Section 3.