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Book Descriptions:

brother hl-2070n repair manual

Keep this manual in a convenient place for quick and easy reference at all times. November 2004 SMPRN054 Confidential. Trademarks The Brother logo is a registered trademark of Brother Industries, Ltd. Apple, the Apple Logo, Macintosh and TrueType are registered trademarks of Apple Computer, Inc in the United States and other countries. This information is vital to the service technician to maintain the high printing quality and performance of the printer. This manual consists of the following chapters. The label for Chinese manufactured products MANUFACTURED Brother Corporation Asia Ltd. Brother Buji Nan Ling Factory Gold Garden Ind., Nan Ling Village, Buji, Rong Gang, Shenzhen, CHINA. The label shown below is attached in countries where it is required. This printer has a laser diode which emits invisible laser radiation in the Laser Unit. The Laser Unit should not be opened without disconnecting the two connectors connected with the AC power supply and laser unit. CAUTION In case of any trouble with the laser unit, replace the laser unit itself. CAUTION Indicates cautions that must be observed to service the printer properly or prevent damage to the printer. Available only on Web page. For more information on Web BRAdmin Professional, refer to Confidential. Check that the paper is flat in the tray and below the maximum paper mark. Fig. For more information on BRAdmin Professional, go to 1 Insert the CDROM into your CDROM drive. The opening screen will appear automatically. Then, follow the onscreen instructions 7 Select Brother PeertoPeer Network Printer, and then click the Next button. 8 Follow the instructions below depending on it. For Network shared printer users Go to 3. For Brother PeertoPeer network printer users NetBIOS Configuring the NetBIOS port 1 Select Search the network for devices and choose from a list of discovered devices Recommended, and then click the Next button. Close the Chooser. 8 The setup is now complete.

211. <http://www.time.net.pl/userfiles/british-gas-330-boiler-manual-free.xml>

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Printing on Plain Paper, Recycled Paper or Transparency from the Paper Tray You can load plain paper, recycled paper or transparency into the paper tray. If paper is loaded into the paper tray, the printer automatically feeds paper sheet by sheet and ejects the printed page into the output tray. Repeat for each page that you want to print. CAUTION If you print on transparency, remove each transparency immediately after printing. Stacking the printed transparency may cause a paper jam or the transparency to curl. This damage is not covered under any Brother warranty or service agreement. Do not use bond paper. When printing on both sides of the paper, follow the steps below; From the Advanced tab choose the Manual Duplex printing mode, and from the Basic tab choose the Paper Source to be Auto Select or Tray1. If you print 10 pages on 5 sheets of paper, it will print page 2 then page 1 on the first sheet of paper. Pressing the Go button wakes up the printer from Sleep mode to Warming up mode. After warming up, the printer will be ready state. We recommend that you obtain a new drum unit to replace the current one. Link LED is orange This Link LED will be orange if the print server is connected to a 100BaseTX Fast Ethernet network. The Brother NC2200w wireless print server supports the IEEE 802.11b wireless networking standard and can work in infrastructure or Adhoc mode using common wireless authentication and security methods. For more information, please visit our web site at The transmission speed is 12Mbps.. C164 C10P AT49 25.00MHZ XTAL1 nCSOUT TP187. EEPROM 4kbit TP21 TP20 EESCL VDD3 VDD3 TEST C103 4.7k TP38 EESDA BR24L04FWE2 Fig. 314 The EEPROM is BR24C64 type of twowire method with a

4096 x 8bit configuration. The regulated output and the production code of each power supply are listed below;. Regist front actuator Pinch roller Separation roller Pinch roller. The following graph shows the number of printable pages in the case of A4 printing. <http://www.judemusic.nl/fckdata/british-gas-boiler-instruction-manual.xml>

The problem such as toner leak or image defect may occur when lowduty printing is continued for a long time. The toner used for the printer has a property that print density is light first and gradually darker in the course of usage. The charge is generated by ionization of the corona wire, which has a DC bias from the highvoltage power supply applied to it. The flow of the ion charge is controlled by the grid to ensure it is distributed evenly on the drum surface. The area exposed to the laser beam is the image to be printed. The surface potential of the exposed area is reduced, forming the electrostatic image to be printed. The negative charge applied to the paper causes the positively charged toner to leave the drum, and adhere to the paper. Front cover Paper tray Fig. 43 3 Remove the separation pad holder ASSY and the separation pad spring. Separation pad holder ASSY Separation pad holder ASSY Screwdriver. NOTE Remove the "A" section of the rear cover while opening the rear cover slightly. "A" Boss Main frame R Rear cover Rear cover Rear cover Fig. 45 Confidential. Boss Hook Rear chute cover Paper eject actuator Rear chute cover Rear chute cover Fig. 46 2 Remove the paper eject actuator and the eject actuator spring. Eject actuator spring Paper eject actuator Paper eject actuator. Hooks Top cover Hook Taptite, bind B M4x12 Hooks Hook Taptite, bind B M4x12 Fig. 413 5 Remove the paper stopper. Hooks. Hook Front cover ASSY Drive release cam Front cover ASSY Fig. 415 2 Release the hook "A" on the front cover ASSY from the chute. 3 Slide the front cover ASSY to the direction of the arrow shown in the figure below to remove it. Taptite, bind B M4x12 A Taptite, bind B M4x12 B Taptite, bind B M4x12. Check that the distance between the floor and the separation roller collar of the pickup roller holder ASSY is 45.5 to 47.5mm by using the plate jig.

Pickup roller holder ASSY Hook Link lever Pickup roller holder ASSY Printer top side Printer body Chute upside down Taptite, cup B M4x12 Fixing unit Taptite, cup B M4x12. PR arm ASSY Pressure roller PR bush PR bush PR arm ASSY Fig. 425 6 Release each hook of the springs from the fuser frame and remove the four separate claw ASSYs. Heat roller HR bush Fuser frame Fig. 428 NOTE When reassembling the halogen heater, put the halogen heater onto the fuser frame so that the terminal of the heater harness is at the top, and secure the screws in the order shown in the figure below. Heat roller HR bush Hooks HR gear HR bush HR gear Return the hook to the original position. Return the hook to the original position. Fig. 430 12 Remove the thermistor ASSY harness from the four hooks. Turn off the printer and wait for the printer to cool down before you touch the internal parts of the printer. LD harness 5P Polygon motor connector LV harness ASSY Main PCB Panel PCB connector HVPS connector It has been taken back. Main motor connector. LD harness 5P Polygon motor connector LV harness ASSY Main PCB Panel PCB connector HVPS connector It has been taken back. Main motor connector Thermistor relay harness. Taptite, cup B M3x8 Panel PCB Hook. Main frame R LV shield plate PS PCB unit Taptite, cup S M3x6 Taptite, cup S M3x6 Fig. FG harness ASSY 2 Main frame R Taptite, cup S M3x6 B Filter ASSY Taptite, cup S M3x6 Laser unit A in duct Taptite, cup S M3x6 Hook Fig. Chute Taptite, bind B M4x12 Sub chute ASSY Taptite, bind B M4x12 Fig. 450 430 Confidential. Link lever "A" Printer top side Printer body upside down Fig. 451 NOTE When reassembling the link lever, insert the end of the link lever into the main frame L referring to the figure below. Tail edge actuator Tail edge spring Chute Printer top side Printer body upside down Fig. Taptite, bind B M3x6 Regist sensor PCB ASSY Chute Hooks. Taptite, bind B M4x12 FG harness ASSY 4 Base plate FG harness ASSY 1 FG harness ASSY 5.

Main frame L Taptite, bind B 4x12 Main shield plate Taptite, bind B M4x12 FG harness ASSY 4. Taptite, cup S M3x6 Taptite, cup S M3x6 Main motor ASSY Gear plate calking ASSY Fig. 467 Confidential 439. Ball Confidential 446. Compositon Manufacturer Origin. This refers to a soldering

iron that has a smaller degree of decrease in the temperature at the soldering irons tip, such as when the soldering iron is applied to the base metal or solder is supplied, and the temperature is soon returned to the specified temperature. The printer should be used only in a clean, dustfree environment with adequate ventilation. We recommend that you replace the drum unit with a new one before there is a noticeable deterioration in the print quality. If you have questions, call your local waste disposal office. A starter toner cartridge will print up to 1,500 A4 or Lettersize singlized pages at 5% coverage. Hold the cartridge level with both hands and gently rock it from side to side five or six times to spread the toner evenly inside the cartridge. Fig. If you put it in properly, the lock lever will lift automatically. Confidential. When you replace the toner cartridge or the drum unit, make sure you clean the inside of the printer. If printed pages are stained with toner, clean the inside of the printer with a dry soft cloth. If you do not, printed pages may have a vertical stripe. Close the front cover of the printer. Plug in the power cord, and then turn on the power switch. If toner scatters and your hands or cloths get dirty, immediately wipe or wash it off with cold water. Main PCB Model ROM 0 HL2030 For a production part. Rewriting the firmware ROM of the printer 1 Connect the PC and printer with the USB cable. 2 Open the front cover, and turn the power supply of the printer on while holding down the Go button. The upper limit value is different between the starter toner cartridge and standard one.

Therefore, it is necessary to set the conformable value to the toner cartridge installed in the printer following the steps below. NOTE The following troubleshooting sections contain both the actions which users should take or check and the ones which service technicians should perform. If the jammed paper is removed completely by following the steps below, you can install the paper tray first, and then close the front cover and the printer will resume printing automatically. If the printer does not start printing automatically, press the Go button. Rear chute cover Fig. 77 Pull the jammed paper out of the fixing unit. If the jammed paper cannot be pulled out easily, push down the tab with one hand as you gently pull the paper out with other. Fig. Push the lock lever down and take the toner cartridge out of the drum unit. Take out the jammed paper if there is any inside the drum unit. Fig. 79 10 Put the toner cartridge back into the drum unit until you hear it lock into place. If you put it in properly, the lock lever will lift automatically. Even if the same problem occurs again, follow the procedures in the table below. Both high temperature and humidity will cause paper to curl. 2 If the printer is used infrequently, the paper may have sat for too long in the paper tray. Turn over the stack of paper in the paper tray. User Check 1 Check that the printer cable is not damaged or broken. Check also that the cable is connected to the correct interface connectors of both the printer and PC. Doubleclick the file "Deins USB.exe" in the USB directory of the CDRom.No AC power supplied Possible cause Step Check Result Remedy Supply voltage Is the correct voltage present Inform the user that the at the outlet Main motor failure Possible cause. Highvoltage Check the connections of the Replace the highvoltage power supply connector between the high. Possible cause Step Check Result Remedy Link lever does Does the link lever work.

Remove the cause of non not move smooth operation of the link Isnt the link lever bent smoothly. Even if the same image defect appears, the following procedures should be followed in the event of specific image defects. High temperature and high humidity conditions can increase the amount of background shading. 3 Clean the corona wire with the wire cleaner. 4 Try installing a new toner cartridge or drum unit. Drum unit Are the drum shaft and drum. Install a new drum unit. Ground Possible cause Step Check Result Remedy contacts Corona failure Is the corona wire dirty. Clean the corona wire with the wire cleaner. Install a new drum unit. 5 The toner cartridge may be damaged. Install a new drum unit. 2 Check the paper used meets the recommended paper specifications. 3 Clean inside of the printer and the corona wire in the drum unit. Ground Possible cause Step. Install a new toner cartridge. 3 Check the printer's environment. High temperature and high humidity conditions can cause this problem. Refer to Step 1 in the table. Place the printing samples in front of the drum unit, and find the exact position of the image defect. Drum unit Position of smudge on the

drum 75.3mm interval. Refer to Step 1 in the table. Corona dirty Is the corona wire dirty 1 Clean the corona wire. A rough surfaced paper may cause the problem. 2 The toner cartridge may be damaged. Install a new toner cartridge. 3 The drum unit may be damaged, or may be nearly at the end of life. Install a new drum unit. The printer prints unexpectedly or it prints garbage. User Check 1 Check if the printer cable is not too long. User Check 1 Press the Go button on the control panel to print the data remaining in the printer. 2 Reduce the complexity of your document or reduce the printer resolution. NOTE This problem may appear if the data is too complex. Brother print servers have two LEDs on the back panel of the printer. The upper side LED shows Link status. Make sure that your print server appears.

If it is visible, then the connection is good. Otherwise, go to Step 5. Fig. 718 5. If you have tried 1 to 4 above and it does not work, then reset the print server back to the default factory settings and try from the initial setup again. If it is visible, then the connection is good. Otherwise, go to Step 4. There are two types of modes User Mode and Service Mode. The printer returns to the ready status after printing. Print Fonts The printer prints a list of the internal fonts. The printer returns to the ready status after printing. The printed image may deteriorate when using the drum unit to a certain degree. The printer detects how much the drum unit is used with the drum counter and lights up the Drum LED. Since the number of sensors in the ALL series is small, the sensors can be checked by performing a print operation in principle. Close the front cover as pressing the Go button while the front cover is open. The scanner motor starts rotating, and in two seconds the main motor starts rotating. Confidential. Each term is indicated when it fulfills the condition. Except for HL2070N model, Printer information and Maintenance information are indicated on Page 1.. Whenever you switch this mode, the setting is changed over from the present one to the other. When you take your finger off from this switch, the Ready LED is lit in 100% light intensity or low light intensity according to the setting so that you can verify the present setting. HighVoltage Power Supply Circuit Diagram NAME HighVoltage PS Circuit A10 Confidential. MAIN FRAME R PINCH SPRING R ALL Confidential A12. November 2004All rights reserved. No part of this publication may be reproduced in any form or by any means without permissionSpecifications are subject to change without notice. Trademarks. The Brother logo is a registered trademark of Brother Industries, Ltd. Apple, the Apple Logo, Macintosh and TrueType are registered trademarks of Apple.

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Toner Cartridge. 326 Exposure stage. 329. Developing. 330. Transfer. 331. Fixing stage. 331. Sensors. 332 Paper Tray. 44.

Rear Cover. 45. Rear Chute Cover. 46. Side Cover L. 47. Side Cover R. 47. Front Cover. 410. Pickup Roller Holder ASSY. 411. Fixing Unit. 415. High Voltage PS PCB ASSY. 421. Main PCB. 422. PS PCB Unit. 425. Laser Unit. 428. Sub Chute ASSY. 430. Link Lever. 431. Tail Edge Actuator. 432. Regist Sensor PCB ASSY. 433. Fan Motor 60 Unit. 434. New Toner Sensor. 436 Confidential Toner Sensor PCB ASSY. 437. Main Motor ASSY. 438. Develop Joint. 440. Main Frame L. 443. Main Frame R. 444 Toner Cartridge. 54 Cleaning the Corona Wire. 510. Cleaning the Scanner Window. 511. Cleaning the Electrical Terminals. 512 Service Calls. 75 Warnings for Maintenance Work. 72. Identify the Problem. 73. List of Error Message. 76. Error Message in the Status Monitor. 77. Error Message Printouts. 78 Confidential Diameter of Rollers. 726. Troubleshooting Image Defect. 727. Location of Grounding Contacts. 744 Printing Problem. 748. Protocol Specific Troubleshooting. 749 User Maintenance Mode. 83. Service Mode. 84. Diagnostics. 812. Printer Information. 814 Confidential Control for Health and Safety Act of 1968. This means that the printer does not produce Since radiation emitted inside the printer is completely confined within protective housings Compliance is mandatory for products One of the following labels on the back of the printer The label for Japanese manufactured products This product complies with FDA performance standards Notice No.50, dated July 26, 2001. The label for Chinese manufactured products Brother Buji Nan Ling. Factory. Gold Garden Ind., Nan Ling Village, Buji, Rong Gang. Shenzhen, CHINA. This product complies with FDA performance standards Notice No.50, dated July 26, 2001. Caution. Use of controls, adjustments or performance of procedures other than those specified in Confidential This printer has a laser diode which emits invisible laser radiation in the Laser Unit. The.

Laser Unit should not be opened without disconnecting the two connectors connected with Since the variable resistor in the laser unit is adjusted Caution. Use of controls, adjustments or performance of procedures other than those specified in For Finland and Sweden Maximum radiation power 5 mW. Laser class Class 3B Confidential Gehäuse der Lasereinheit darf nicht geöffnet werden, da sonst Laserstrahlen austreten können. Be sure to take off any personal A reflected beam, Since the beam is invisible, the following caution label is attached on the laser unit. Confidential When opening the front cover or back cover to access any parts inside the printer, Confidential High Resolution and Fast Print Speed Versatile Paper Handling. The printer loads paper automatically from the paper tray. The paper tray can hold A4, letter, Front Operation. Basic operation of the printer can be controlled from the control panel. Enhanced Printing Performance and User Friendly Operation for Windows The dedicated printer driver for Microsoft. You can easily The driver supports our You can easily setup The printer driver can monitor the status of your printer using bidirectional parallel The printer status monitor program can show the current status of your printer. When printing, The default setting is OFF. Quick Print Setup. The Quick Print Setup is a convenient utility to allow you to make changes to frequently used You can change the settings by The default setting is OFF. Enhanced Memory Management. The printer provides its own data compression technology in its printer hardware and the You can avoid memory errors and print most full pages The printer can be connected using the Universal Serial Bus USB interface to a PC or Mac Drivers that allow you to use the USB port are provided on the CD ROM supplied with the printer. Popular Printer Emulation Support. These printers support the following printer emulation modes. HL2070N HP LaserJet PCL6, Epson FX850 and IBM Proprinter XL.

Environment Friendly It is useful for obtaining draft copies for Bar Code Print for HL2070N only. The printer can print the following 11 types of bar codes. Code 39. Code 128. Interleaved 2 of 5. Codabar. US PostNet The Brother printer has built in multi protocol network capability as standard. This allows For further information, see the. Network User's Guide supplied with the printer. Control

Panel. Facedown Output Tray. Support FlapPower Switch. Manual Feed Slot. Manual Feed Paper Guides. Front Cover. Paper Tray. Fig. 11Back CoverConnector. Parallel Interface ConnectorSide coverPrint method. Electrophotography by semiconductor laser beam scanning. Laser. Wavelength. OutputLinux. Print quality. Normal printing mode. Economy printing mode Toner saving mode. Print speed. NormalFirst print. Less than 10 seconds when the printer is in the ready state.ConsumablesStarter. Standard. Shelf lifeShelf lifeThe shelf life is guaranteed under the normal condition as mentionedStorage condition at a humidity of 85 to 95% Up to 5 days. Storage condition at a humidity of 10 to 35% Up to 5 daysSpeeds with Various Settings' in this chapter.Fujitsu SPARClite 133MHz. EmulationEPSON FX850 or IBM Proprinter XL. Printer driverInterface. StandardOptionIEEE 1284 Parallel. FullSpeed USB 2.0. IEEE 1284 Parallel,ConfidentialHL2070N 16 Mbytes. Control Panel. Diagnostics. Selfdiagnostic program. Resident Fonts. HL2070N 49 scalable fonts, 12 bitmap fonts, 11 bar codes. Code39, Interleaved 2 of 5, EAN8, EAN13, UPCA, EAN128. Codabar, FIM USPostNet, ISBN, Code128. LED 4 LEDsElectronics and Mechanics. Power source. U.S.A. and Canada. Europe and Australia. Power consumptionPrinting. Standing by. Sleep. Less than 7 W HL2070N. NoiseLess than 51dB A. Less than 30dB AAutomatic negotiation. ProtocolsSupplied software. Server, WindowsXP Professional. Web BRAdmin is NOT supplied with CDROM. Available only on. Web page. For more information on Web BRAdmin Professional,Tray1.

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"K5PxxxxxxxD" P standsBrand new Toner Cartridge WeightToner Weight at Brand New Toner CartridgeToner Cartridge Weight at Toner Near EmptyRemain Toner Weight at Toner Near EmptyToner Cartridge Weight at Toner Life EndRemain Toner Weight at Toner Life EndFor TN350, TN2050 and TN2025 models, the starter toner cartridge weight is 550g, andMay. SeptemberJune. OctoberJuly. NovemberAugust. DecemberMie BrotherThe second time N. The third time P. ConfidentialM 100gThe second time N. The third time PY3 THE 3rd MOLDIf it is unavoidable that you must use the printer with theseDo not place the printer in a dusty place.Use a blind or a heavyCheck the following system requirements to setup and operate the printer using Brother. Printing Solution. Processor Speed. MinimumHard Disk. SpacePentium 133MHzPentium 150MHzAll base modelsOperating System Version. Windows ApplePrinter. Drum Unit AssemblyAC power cordFig. 21Interface cable. An interface cable is not a standard accessory. Please purchase the appropriate cable for theMost parallel cables support bidirectional communication, but some might have anPlease make sure that you use a HiSpeed USB 2.0 certified cable if your computer uses a

HiSpeed USB 2.0 interface. Do not connect the USB cable to a nonpowered hub or a Mac keyboard. Please make sure it is recommended to use a USB interface cable that is no longer than 2 meters 6 feet. Please use a straightthrough Category 5 or greater twistpair cable for 10BASE-T or You need to implement hardware setup and driver installation to use the printer. Most existing parallel cables support bidirectional communication, but some might have an incompatible pin assignment or may not. The installation programs for the hardware setup and driver installation are contained on the CD-ROM. For Windows users Insert the supplied CD-ROM into the CD-ROM drive. The Select the printer model and the language. For Mac OS 10.2.4 or greater users Doubleclick the Start Here OS X icon. Follow the onscreen instructions. For Mac OS 9.

1 to 9.2 users. Go to the next page and follow the instructions. Unpack the drum unit assembly. Rock it from side to side several times to distribute the toner evenly inside the assembly. Put the drum unit assembly in the printer. Fig. 22 Check that the guides are firmly in the slots. Paper guide release lever. Fig. 23 Check that the paper is flat in the tray and below the Fig. 24 Check that it is completely in the printer. Release the Go button. Make sure that the Toner, Drum and Paper LEDs are off. The printer will print a test page. Fig. 25 Follow the instructions for your operating system and interface cable type. If you have already connected to the cable, remove it. Read the license agreement carefully. Follow the onscreen Connect the USB Click the Next button. Fig. 26 Fig. 27 Select the Parallel interface. Turn off the printer power switch. Connect the parallel interface cable to your PC, and then connect it to the printer. Read Then, follow the onscreen instructions. Turn on the printer power switch. The setup is now complete. For Network Interface Cable users for HL2070N only The BRAdmin Professional software is designed to manage your Brother network connected. The opening screen will appear. Follow the instructions on the screen. Professional software or a web browser to change this password. You can also download the latest Brother BRAdmin. Professional utility version from This utility is only available for. Once you are sure that you can Setting your IP Address, Subnet Mask and Gateway using BRAdmin Professional BRAdmin will search for new Then, follow the onscreen instructions For Network shared printer users Go to 3. For Network shared printer users. For LPR users Go to 4. For Brother Peer-to-Peer network printer users LPR recommended. Peer-to-Peer printing method. For NetBIOS users Go to 5. For Brother Peer-to-Peer network printer users NetBIOS Install the driver and select the appropriate printer queue or "share name".