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You can read the recommendations in the user guide, the technical guide or the installation guide for RICOH AFICIO SP C811DN. You'll find the answers to all your questions on the RICOH AFICIO SP C811DN in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual RICOH AFICIO SP C811DN
User guide RICOH AFICIO SP C811DN
Operating instructions RICOH AFICIO SP C811DN
Instructions for use RICOH AFICIO SP C811DN
Instruction manual RICOH AFICIO SP C811DN



CLP240D
C7840nD
LP440c
Aficio sp c811DN

Operating Instructions
Hardware Guide



- 1 Guide to the Printer
- 2 Installing Options
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Read this manual carefully before you use this machine and keep it handy for future reference. For safe and correct use, be sure to read the Safety Information before using the machine.



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Manual abstract:

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We disclaim any and all rights to those marks. The proper names of the Windows operating systems are as follows: * The product name of Windows® 98 is Microsoft® Windows® 98. * The product name of Windows® Me is Microsoft® Windows® Millennium Edition (Windows Me). * The product names of Windows® 2000 are as follows: Microsoft® Windows® 2000 Advanced Server Microsoft® Windows® 2000 Server Microsoft® Windows® 2000 Professional * The product names of Windows® XP are as follows: Microsoft® Windows® XP Professional Microsoft® Windows® XP Home Edition * The product names of Windows Server™ 2003 are as follows: Microsoft® Windows Server® 2003 Standard Edition Microsoft® Windows Server™ 2003 Enterprise Edition Microsoft® Windows Server™ 2003 Web Edition * The product names of Windows NT ® 4.0 are as follows: Microsoft® Windows NT ® Server 4.0 Microsoft® Windows NT ® Workstation 4.0 Some illustrations in this manual might be slightly different from the machine. TABLE OF CONTENTS

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· Check the label on the rear of the printer to identify the printer's model.

ATU088S 9 Installing the Operating Instructions The CD-ROM "Manuals" provided with this printer contains HTML version Operating Instructions. Follow the instructions below to install it. · System Requirements: · Windows 95/98/Me, Windows 2000/XP, Windows Server 2003 or Windows NT 4.0 · 800 600 or higher monitor resolution · Web Browsers: · Microsoft Internet Explorer 5.5 SP2 or higher · Firefox 1.

0 or higher 1. Quit all applications currently running. 2. Insert the CD-ROM "Manuals" into the CD-ROM drive. The installer starts.

Auto Run may not work under certain operating system settings. In this case, launch "Setup.exe" in the CD-ROM root directory. 3. Select an interface language, and click [OK]. 4. Click [Install manuals]. 5. Follow the instructions on the screen to complete the installation. 6.

Click [Finish] when the installation is complete. 7. Click [Exit]. · The CD-ROM "Manuals" contains two versions of the manuals: a standard version and a simpler version. Select the appropriate version for your operating environment. · To uninstall the Operating Instructions, select [Programs] in the [Start] menu, select this printer driver, and then click [Uninstall]. You can uninstall each Manual separately. · If you are using an incompatible Web browser and the simplified version of the Operating Instructions is not automatically displayed, open the folder "MANUALLANG (language)\(manual name) unv" on the CD-ROM "Manuals", and then double-click on "index.htm". 10 1.

Guide to the Printer Exterior: Front View This section explains names and functions of the parts on the front and right side of the printer. 1 ATU093S 1. Standard Output Tray Printed pages are output here. 2. Upper Right Cover Open this cover to remove jammed paper.

3. Bypass Tray Up to 100 sheets of plain paper can be loaded. 4. Bypass Tray Extension When loading paper larger than A4, pull out the bypass tray extension. For details about the sizes and types of paper that can be used, see p.

81 "Supported Paper for Each Tray". 5. Right Cover Open this cover to replace the fusing unit and transfer roller, or to remove jammed paper. 6. Handle Pull out this handle when lifting the printer. 7. Tray 1, Tray 2 in each tray. Up to 550 sheets of paper can be loaded in each tray, when using plain paper. 8. Left Front Cover Open this cover when replacing the waste toner bottle.

The waste toner bottle collects toner that is left over during printing. If the "The Used Toner Bottle is full." message appears on the display, replace the waste toner bottle. 11 1. Guide to the Printer 9. Power Switch Use this switch to turn the power on or off. 10. Front Cover Open this when replacing the toner, photo conductor units or intermediate transfer unit. 11. Control Panel Contains keys for printer control and a display that shows printer status.

12. Paper Support Extend the paper support when printing to paper larger than A3. 1 · p.81 "Supported Paper for Each Tray". 12 Exterior: Rear View Exterior: Rear View This section explains names and functions of the parts on the rear side of the printer.

1 ATU002S 1. Optional Interface Board Slots Optional interface boards can be inserted. Insert an optional Gigabit Ethernet board, IEEE 802.11b interface unit, Bluetooth interface unit or IEEE1284 interface board in the left slot. Insert a USB host board in the right slot.

2. Expansion Card Slots Insert a security, digital camera or encryption card. 3. Controller Board Slide this out to install options such as the SDRAM module or User Account Enhance Unit. 4. Ventilator Releases heat from internal components to prevent overheating. Do not place objects against or near these holes. Doing so results in printer malfunction. Replace the dustproof filter when the "Replacement Alert/Replace IntTrans Unit soon." message appears on the display.

Replace it with the intermediate transfer unit together. 5. Power Connector Connect the power cable to the printer. Insert the other end into an electrical outlet. 6. Drying Heater Switch If the paper in the paper tray is moist due to high humidity, the print quality may decrease. The drying heater prevents moisture. If humidity is high, turn the switch on. 7. Ethernet Port Use a network interface cable to connect the printer to the network.

13 1. Guide to the Printer 8. USB Port Use a USB cable to connect the printer to a host computer. 1 14 Interior This section explains names and functions of the parts inside of the printer. 1 ASZ006S 1.

Fusing Unit Replace the fusing unit when the following messages appear: · "Replacement Alert/Replace Fusing Unit soon." · "Replace Fusing Unit." Replace the fusing unit and the transfer roller together. 2. Transfer Roller Replace the transfer roller when the following messages appear: · "Replacement Alert/Replace Fusing Unit soon."

· "Replace Fusing Unit." Replace the transfer roller and the fusing unit together. 3. Inner Cover Open this cover when replacing the photo conductor unit or intermediate transfer unit. 4. Photo Conductor Unit From the left, the photo conductors are installed in the order of yellow (Y), cyan (C), magenta (M), and black (K). Replace the relevant photo conductor unit when the following messages appear: · "Replacement Alert/Replace PCU:Black soon." · "Replace PCU:Black." · "Replacement Alert/Replace PCU:Colour soon." · "Replace PCU:Colour."

" 5. Intermediate Transfer Unit Replace the intermediate transfer unit when the following messages appear: 15 1. Guide to the Printer · "Replacement Alert/Replace IntTrans Unit soon." · "Replace IntTrans Unit." 6. Toner From the left, the toner is installed in the order of black (K), yellow (Y), cyan (C), and magenta (M). Replace the relevant toner when the following messages appear: · "Out of toner." Add toner<K,C,M,Y>." 1 16 Control Panel Control Panel

This section explains names and usage of the parts of the control panel. 1 ATU049S 1.

Display Displays current printer status and error messages. Entering energy saver mode turns off the back light. For details about energy saver mode, see Software Guide. 2. Selection Keys Correspond to the function items shown on the bottom line of the display.

3. [Escape] Key Press this key to return to the previous display. 4. Scroll Keys Press to move the cursor in each direction. When the [] [] [] [] keys appear in this manual, press the scroll key of the same direction.

5. [OK] Key Use this key to confirm settings, or setting values, or move to the next menu level. 6. Data In indicator Blinks when the printer is receiving data from a computer.



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The Data In indicator lights up if there is data to be printed. 7. Alert Indicator Lights up when a printer error occurs. Follow the instructions that appear on the display. 8. Power Indicator Remains lit while the power is on.

It is unlit when the power is off or while the printer is in energy saver mode. 9. [Job Reset] Key When the printer is online, press this key to cancel an ongoing print job. 10. [Menu] Key Press this key to configure and check the current printer settings. 17 1. Guide to the Printer 11. [Online] Key Indicates whether the printer is online or offline. Press this to switch between online and offline status. When the lamp is lit, the printer is online, enabling data reception from connected computers.

When the lamp is unlit, the printer is offline, disabling data reception from the connected computers. While configuring settings, press the [Online] key to return to the initial screen. 1 18 Display Panel Display Panel This section explains configuration using the initial screen of the display panel. The items are highlighted when selected. · Do not touch the display panel.

The following screen appears when you turn on the printer. 1 AQC060S 1. Operational Status or Messages Displays the printer status or the messages. 2. [Option] Press to display the status of options installed in the printer.

3. [Prt.Jobs] Press to display print jobs sent from a computer. 4. [Supplies] Press to display the menu of supplies for the printer. · Toner levels are displayed by default. To turn off the toner level display, select [Maintenance] [General Settings] [Display Supply Info] [Off]. · Adjust the brightness if the screen is dark. 19 1. Guide to the Printer Reading the Display and Using Keys 1 ATU051S 1.

[Escape] key Cancels an operation or returns to the previous display. 2. Scroll keys Move the cursor in each direction. When the [] [] [] [] keys appear in this manual, press the scroll key of the same direction. 3. [OK] key Confirms settings and setting values, or moves to the next menu level. 4. Selection keys Correspond to the function items shown on the bottom line of the display. When this manual instructs you to "press [Option]", press the left selection key. 20 2.

Installing Options Available Options By installing options, you can improve printer performance and expand the available features. For the specifications of each option, see p.229 "Specifications". · Before installing options, the machine should be turned off and unplugged for at least an hour. Components inside the machine become very hot, and can cause a burn if touched.

Option list The following is a list of options for this printer. Option List Tray Unit TK3000 Paper Feed Unit PB3000 LCIT PB3010 Memory Unit Type C 128 MB Memory Unit Type C 256 MB User Account Enhance Unit Type E Gigabit Ethernet Board Type A USB Host Interface Unit Type A IEEE 802.11b Interface Unit Type I IEEE 802.11b Interface Unit Type H Bluetooth Interface Unit Type 3245 IEEE 1284 Interface Board Type A Camera Direct Print Card Type C Data Overwrite Security Unit Type G Description 500-sheet paper feed unit 1000-sheet paper feed unit 2000-sheet paper feed unit 128 MB SDRAM module 256 MB SDRAM module User account enhance unit Gigabit Ethernet board USB host board IEEE 802.11b interface unit (IEEE 802.

11b interface unit (Bluetooth interface unit IEEE 1284 interface board Camera direct print card Data overwrite security unit)) 2 For installation of the options listed below, contact your sales or service representative. 21 2. Installing Options Option List Bridge Unit C810 Booklet Finisher SR3000 Bridge unit Booklet finisher Description 2 Punch Kit PU3000 NA Punch Kit PU3000 EU Punch Kit PU3000 SC Finisher SR3030 Punch Unit Type 3260 NA 3/2 Punch Unit Type 3260 EU 2/4 Punch Unit Type 3260 SC Punch kit (for booklet finisher, 2 and 3 holes type) Punch kit (for booklet finisher, 2 and 4 holes type) Punch kit (for booklet finisher, 4 holes type) 2 tray finisher Punch kit (for 2 tray finisher, 2 and 3 holes type) Punch kit (for 2 tray finisher, 2 and 4 holes type) Punch kit (for 2 tray finisher, 4 holes type) Order of Option Installation When installing multiple options, the following order is recommended: 1. Attach the 500-sheet paper feed unit The 500-sheet paper feed unit can be used in combination with the 1000-sheet paper feed unit. In this case, attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit before attaching to the printer. 2. Attach the 1000/2000-sheet paper feed unit Either the 1000-sheet paper feed unit or 2000-sheet paper feed unit can be attached, but not both. 3. Attach the SDRAM module Install the expansion memory in the controller board slot. There are two types of memory units, 128 MB and 256 MB.

4. Install the user account enhance unit Install the module in the user account enhance unit slot of the controller board. 5. Install the optional interface board Install an optional Gigabit Ethernet board, IEEE 802.11b interface unit, Bluetooth interface unit or IEEE 1284 interface board in the left slot. Install a USB host board in the right slot. 6. Install a camera direct print card or security card Insert the camera direct print card or security card in the card slot of the controller board. 22 Available Options 7. Attach the bridge unit To use the booklet finisher or 2 tray finisher, remove the output tray and attach the bridge unit.

To attach this option, contact your sales or service representative. 8. Attach the booklet finisher or 2 tray finisher Attach the bridge unit first, then attach this option on the left side of the printer. To attach this option, the 1000-sheet paper feed unit or 2000-sheet paper feed unit must be attached already. To attach this option, contact your sales or service representative.

9. Attach the punch unit to the finisher Attach this option to add punch capability to the finisher. To attach this option, contact your sales or service representative. 2 Installing Options Install options in the positions shown below. External options ATU086S 1.

500-sheet paper feed unit Attach to the underside of the printer. Up to 550 sheets of paper can be loaded, when using plain paper. The 500-sheet paper feed unit will be identified as "Tray 3". See p.28 "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit". 2. 1000-sheet paper feed unit Attach to the underside of the printer, or of the 500-sheet paper feed unit. Up to 1100 sheets (550 sheets per tray) of paper can be loaded, when using plain paper. Depending on where it is attached, the trays of the 1000-sheet paper feed unit will be identified as follows: 23 2. Installing Options When attached to the printer itself: "Tray 3", "Tray 4" When attached to the 500-sheet paper feed unit: "Tray 4", "Tray 5" See p.

30 "Attaching the Paper Feed Unit". 3. 2000-sheet paper feed unit Attach to the underside of the printer.



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Up to 2000 sheets of paper can be loaded, when using plain paper. Including the standard paper trays (550 sheets 2 trays) and bypass tray (100 sheets), a maximum of 3,200 sheets of paper can be loaded at one time. The 2000-sheet paper feed unit will be identified as "Tray 3". See p.30 "Attaching the Paper Feed Unit". 4. Bridge unit Remove the output tray and attach the bridge unit.

The bridge unit sorts output going to the finisher and output tray. To attach this option, contact your sales or service representative. 5. Booklet finisher Attach the bridge unit first, then attach this option on the left side of the printer. The finisher provides features such as shift collate, stapling, binding and punching.

In addition, it also supports print job sorting features, such as shifting the output tray for each job. · *1: Finisher upper tray · *2: Finisher shift tray · *3: Finisher booklet tray To attach this option, contact your sales or service representative. 6. 2 Tray finisher Attach the bridge unit first, then attach this option on the left side of the printer. The finisher provides features such as shift collate, stapling and punching.

In addition, it also supports print job sorting features, such as shifting the output tray for each job. · *4: Finisher upper tray · *5: Finisher shift tray To attach this option, contact your sales or service representative. Paper feed unit and finisher combinations A finisher can be attached only when the 1000 or 2000-sheet paper feed unit is used without combination with the 500-sheet paper feed unit. 2 24 Available Options Interior 1 2 2 5 4 3 ATU084S 1. Camera direct print card/Security card p.56 "Installing a Camera Direct Print Card or Security Card" 2. USB host interface board p.54 "Installing the USB Host Interface Board" 3. Optional interface board · Gigabit Ethernet board p.43 "Installing the Gigabit Ethernet Board" · IEEE 802.

11b interface unit p.46 "Installing the IEEE 802.11b Interface Unit" · Bluetooth interface unit p.49 "Installing the Bluetooth Interface Unit" · IEEE 1284 interface board p.52 "Installing the IEEE 1284 Interface Board" 4. SDRAM module p.35 "Attaching the SDRAM Module" 5. User account enhance unit p.39 "Installing the User Account Enhance Unit" · For the specifications of each option, see p.229 "Specifications".

· p.229 "Specifications" 25 2. Installing Options Cautions When Re-installing the Controller Board When installing options inside the controller board, handle the board carefully while it is outside the printer. To re-install the controller board, holding the handle in the center of the board, push the board firmly into the printer. 2 · The following may occur if the controller board is not correctly installed: 1.

All control panel indicators are lit. 2. No control panel indicators are lit. 3. The "SC670" error message appears on the display.

ATU039S 26 Attaching the Optional Paper Feed Unit Attaching the Optional Paper Feed Unit · When attaching multiple options, attach the paper feed unit first. · Four people are required to attach the paper feed unit. Make sure that the necessary number of people is available before beginning. Option configurations The table below shows the possible configurations of printer and options. 2 ATU085S 1. Printer 2. Printer 500-sheet paper feed unit 500-sheet paper feed unit 1000-sheet paper feed unit See p.30 "Attaching the Paper Feed Unit" for attachment instructions. To install options in this configuration, first see p.28 "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit" for instructions about attaching the 500-sheet paper feed unit to the 1000sheet paper feed unit.

Then, see p.30 "Attaching the Paper Feed Unit" for instructions about attaching this to the printer. 3. Printer 4. Printer 1000-sheet paper feed unit 2000-sheet paper feed unit See p.30 "Attaching the Paper Feed Unit" for attachment instructions. See p.30 "Attaching the Paper Feed Unit" for attachment instructions.

Package contents The contents of the package for each option are shown below. · Package contents for 500-sheet paper feed unit 27 2.

Installing Options 2 ATU040S · Package contents for 1000-sheet paper feed unit ATU041S · Package contents for 2000-sheet paper feed unit ATU042S Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit The 500-sheet paper feed unit can be used in combination with the 1000-sheet paper feed unit. In this case, attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit before attaching to the printer. This section explains how to attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit. · The 500-sheet paper feed unit weighs approximately 13.5 kg (29.

8 lb.). · When moving the paper feed unit, hold the bottom at both sides, and then lift the optional paper feed unit slowly. Lifting it carelessly or dropping it may cause an injury. 1.

Check the contents of the package. 28 Attaching the Optional Paper Feed Unit 2. Remove the packaging from the paper feed unit. 3. Lift the 500-sheet paper feed unit, align it with the top of the 1000-sheet paper feed unit, and slowly lower it straight down. Place it so that it is held firmly in place by the vertical pins. 2 ASZ183S 4. Pull the tray of the 500-sheet paper feed unit out slowly until it stops, then lift the front of the tray slightly, and pull it out completely. ASZ268S Place the tray on a flat surface. 5.

Attach a screw in the hole on the left side of the tray opening to secure it to the paper feed unit. Tighten the screw firmly using a coin. ASZ185S 29 2.

Installing Options 6. Lift the front of the tray, and slide it carefully into the paper feed unit until it stops. 2 ASZ184S 7. On the rear of the unit, attach two brackets using the remaining screws. Tighten the screws firmly using a coin. ASZ197S Attaching the Paper Feed Unit This section describes how to attach the 500-sheet paper feed unit, 1000-sheet paper feed unit, and 2000sheet paper feed unit. The procedure is the same for all three units.

The 1000-sheet paper feed unit is used as an example. · The printer weighs approximately 95 kg (209.5 lb.). · Four or more people are required to move the printer.

Hold the handles located on both sides, and then lift it slowly. Lifting it carelessly or dropping it may cause an injury. · When using the 1000-sheet paper feed unit with the 500-sheet paper feed unit, attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit before attaching to the printer. · When the 1000-sheet paper feed unit is attached, the 2000-sheet paper feed unit cannot be attached. · When the 2000-sheet paper feed unit is attached, neither the 500-sheet paper feed unit nor the 1000-sheet paper feed unit can be attached.



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30 Attaching the Optional Paper Feed Unit · Before using the new paper feed unit, you must configure settings in the printer driver. · Four or more people are required for installation. 1. Check the contents of the package. 2. Turn the printer off and unplug the power cable. 3. Remove the packaging from the paper feed unit. 4. When using the 1000-sheet paper feed unit with the 500-sheet paper feed unit, attach the units to each other first, and then attach them to the printer.

For instructions, see p.28 "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit". 5. Pull out the handle from the right side of the printer. 2 ASZ076S 6. Lift the printer using the handles on both sides of it. ASZ077S The printer should always be lifted by at least four people. 7. Align the front of the printer with the front of the paper feed unit, and slowly lower it. Place it so that it is held firmly in place by the vertical pins.

31 2. Installing Options 2 ASZ254S Return the handle you pulled out from the printer to its original position. 8. Pull tray 2 of the printer out slowly until it stops, then lift the front of the tray slightly, and pull it out completely. ASZ255S Place the tray on a flat surface. 9. Attach a screw in the hole on the left side of the tray opening to secure the printer to the paper feed unit. Tighten the screw firmly using a coin. ASZ256S 32 Attaching the Optional Paper Feed Unit 10. Lift the front of the tray, and slide it carefully into the printer until it stops. 2 ASZ257S 11. On the rear of the unit, attach two brackets using the remaining screws. Tighten the screws firmly using a coin. ASZ258S 12. Plug in the power cable, and then turn on the printer. 13. Print the configuration page to confirm that the unit was attached correctly. · To confirm whether the optional paper feed unit was correctly attached, print the configuration page, and check "Connection Equipment" on the configuration page. If the unit was attached correctly, the following will be displayed: · 500-sheet paper feed unit: Single Tray · 1000-sheet paper feed unit: Twin Trays · 2000-sheet paper feed unit: LCT · If the tray was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.

· If the print area is not centered correctly, see p.167 "Adjusting Printing Position". · For information about printing the configuration page, see "Test Printing", Quick Installation Guide. · "Test Printing", Quick Installation Guide 33 2. Installing Options · p.167 "Adjusting Printing Position" 2 34 Attaching the SDRAM Module Attaching the SDRAM Module · Do not touch the inside of the controller board compartment. It may cause a machine malfunction or a burn. 2 · Before touching the SDRAM module, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the SDRAM module. · Do not subject the memory unit to physical shocks.

· The printer comes equipped with 256 MB of memory. This can be expanded to a maximum of 512 MB. · Before using the new memory unit, you must configure settings in the printer driver. 1. Turn the printer off and unplug the power cable. 2. Remove the five screws securing the controller board. ATU003S The removed screws will be used to secure the controller board again later. 3. Holding the handle, carefully pull out the controller board. ATU004S 35 2. Installing Options Using both hands, slide the controller board completely out and place it on a flat surface such as a table. 2 ATU005S 4. Install the SDRAM module in the indicated slot. ATU006S Two slots are provided for the SDRAM modules. The default 256 MB SDRAM module is installed in the inner slot. To install additional memory, insert the additional SDRAM module to the outer slot. 5. Align the notch on the SDRAM module with the slot, and insert it vertically. ATU007S 36 Attaching the SDRAM Module 6.

Press the SDRAM module down until it clicks into place. 2 ATU008S 7. When also installing the user account enhance unit, install it before returning the controller board to the printer. 8. Fit the controller board into the printer, and push it carefully in until it stops. ATU009S Push it firmly into the printer using the handle. The printer may malfunction if the controller board is not properly installed. 9. Fasten the controller board to the printer using the five screws. ATU010S · Confirm that the SDRAM module was correctly installed by printing the configuration page.

Check that the total memory value is shown in "Device Connection" on the configuration page. 37 2. Installing Options · The table below shows the total SDRAM module capacities. Standard 256MB 128MB 256MB Extended 384MB 512MB Total 2 256MB · If the module was not installed properly, repeat the procedure from step 1. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.

· For information on printing the configuration page, see "Test Printing", Quick Installation Guide. · Install the controller board carefully. See p.26 "Cautions When Re-installing the Controller Board" for details. · "Test Printing", Quick Installation Guide · p.

26 "Cautions When Re-installing the Controller Board" 38 Installing the User Account Enhance Unit Installing the User Account Enhance Unit · Do not touch the inside of the controller board compartment. Doing so may cause a malfunction or burn. 2 · Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the user account enhance unit. · Do not subject the user account enhance unit to physical shocks. 1. Check the contents of the package. AET080S 2. Turn the printer off and unplug the power cable. 3.

Remove the five screws securing the controller board. ATU003S The removed screws will be used to secure the controller board again later. 39 2. Installing Options 4. Holding the handle, carefully pull out the controller board. 2 ATU004S Using both hands, slide the controller board completely out and place it on a flat surface such as a table. ATU005S 5. Install the user account enhance unit as shown. ATU011S 40 Installing the User Account Enhance Unit 6. Insert the protrusions on the user account enhance unit into the holes on the controller board. 2 ATU012S 7. Press the user account enhance unit down until it clicks into place, and confirm that it is held securely. ATU013S 8. When also installing the SDRAM module, install it before returning the controller board to the printer.



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Fit the controller board into the printer, and push it carefully in until it stops. ATU009S Push it firmly into the printer using the handle. The printer may malfunction if the controller board is not properly installed. 41 2. Installing Options 10.

Fasten the controller board to the printer using the five screws. 2 ATU010S · Confirm that the user account enhance unit was correctly installed by printing the configuration page. If it is correctly installed, "Accounting Module" will appear for "Device Connection" on the configuration page. · If the user account enhance unit is not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative. · Please help recycle by returning unneeded user account enhance units to your sales or service representative. · For information about printing the configuration page, see "Test Printing", Quick Installation Guide. · Install the controller board carefully. See p.26 "Cautions When Re-installing the Controller Board" for details.

· "Test Printing", Quick Installation Guide · p.26 "Cautions When Re-installing the Controller Board". 42 Installing the Gigabit Ethernet Board Installing the Gigabit Ethernet Board · The printer's Ethernet and USB ports are not available when the Gigabit Ethernet board is attached to the printer. Use the Ethernet and USB ports on the Gigabit Ethernet board. · Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the Gigabit Ethernet board. · Do not subject the Gigabit Ethernet board to physical shocks. 1. Check the contents of the package. 2 ATU001S Use the included ferrite core when connecting an Ethernet cable to the board.

2. Turn the printer off and unplug the power cable. 3. Unplug cables from the USB and Ethernet ports, and then cover them with the protective caps.

ATU014S 43 2.

Installing Options 4. Loosen the two screws and remove the slot cover. 2 ATU023S The removed cover will not be reused. 5. Fully insert the Gigabit Ethernet board.

ATU015S Confirm that the Gigabit Ethernet board is firmly connected to the controller board. 6. Tighten the two screws to secure the board. ATU018S · Confirm that the Gigabit Ethernet board was correctly installed by printing the configuration page. If it is correctly installed, "Gigabit Ethernet Board" will appear for "Device Connection" on the configuration page. 44 Installing the Gigabit Ethernet Board · If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative. · For information on printing the configuration page, see "Test Printing", Quick Installation Guide. · Before using the Gigabit Ethernet board, you must configure settings from the printer control panel. See p.

67 "Ethernet Configuration" for details. · "Test Printing", Quick Installation Guide · p.59 "Ethernet Cable Connection" · p.67 "Ethernet Configuration" 2 45 2. Installing Options Installing the IEEE 802.11b Interface Unit · Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the unit. 2 · Do not subject the unit to physical shocks. 1. Check the contents of the package.

ATU000S 2. Turn the printer off and unplug the power cable. 3. Loosen the two screws and remove the slot cover. ATU023S The removed cover will not be reused.

46 Installing the IEEE 802.11b Interface Unit 4. Fully insert the interface unit. 2 ATU017S Confirm that the interface unit is firmly connected to the controller board. 5.

Tighten the two screws to secure the interface unit. ATU018S 6. Attach the antenna to the card. Attach them so that the label of the card is facing down, and the ridged side of the antenna is facing up. AET096S 47 2. Installing Options 7. With the ridged side of the antenna facing left, slowly push the card into the interface unit until it stops. 2 ATU019S 8. Holding the antenna cap with the two cut-off corners facing left, fit the cap over the card. ATU020S · Confirm that the interface unit was correctly installed by printing the configuration page.

If it is correctly installed, "IEEE 802.11b" will appear for "Device Connection" on the configuration page. · If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative. · Before using the IEEE 802.11b interface unit, you must configure settings from the printer control panel. See p.76 "IEEE 802.11b (Wireless LAN) Configuration" for details. · For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

· "Test Printing", Quick Installation Guide · p.76 "IEEE 802.11b (Wireless LAN) Configuration" 48 Installing the Bluetooth Interface Unit Installing the Bluetooth Interface Unit · When the Bluetooth interface unit is installed in the printer, Bluetooth-equipped devices such as computers and digital cameras can print wirelessly. · Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the Bluetooth interface unit.

· Do not subject the unit to physical shocks. 1. Check the contents of the package. 2 ATU047S 2. Turn the printer off and unplug the power cable.

3. Loosen the two screws and remove the slot cover. ASZ023S The removed cover will not be reused. 49 2. Installing Options 4. Fully insert the interface unit. 2 ATU017S Confirm that the interface unit is firmly connected to the controller board. 5. Tighten the two screws to secure the interface unit. ATU018S 6.

Attach the card to the card adapter. Attach them so that the label on both the card and adapter is facing up. ASZ032S 50 Installing the Bluetooth Interface Unit 7. With the label side facing left, slowly push the card adapter into the interface unit until it stops. 2 ATU021S · Confirm that the Bluetooth interface unit was correctly installed by printing the configuration page. If it is correctly installed, "Bluetooth" will appear for "Device Connection" on the configuration page. · If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.



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· For details, see the operating instructions included with the Bluetooth interface unit. · For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

· "Test Printing", Quick Installation Guide 51 2. Installing Options Installing the IEEE 1284 Interface Board · Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the IEEE 1284 interface board. 2 · Do not subject the IEEE 1284 interface board to physical shocks. · For connection to the IEEE 1284 interface board, use a half pitch 36-pin interface cable.

1. Check the contents of the package. ATU022S 2. Turn the printer off and unplug the power cable. 3.

Loosen the two screws and remove the slot cover. ATU023S The removed cover will not be reused. 52 Installing the IEEE 1284 Interface Board 4. Fully insert the IEEE 1284 interface board. 2 ATU024S Confirm that the IEEE 1284 interface board is firmly connected to the controller board. 5. Tighten the two screws to secure the interface board. ATU025S · Confirm that the IEEE 1284 interface board was correctly installed by printing the configuration page. If it is correctly installed, "Parallel Interface" will appear for "Device Connection" on the configuration page. · If the board was not installed properly, repeat the procedure from step 2.

If it cannot be installed correctly even after reattempting installation, contact your sales or service representative. · For information on printing the configuration page, see "Test Printing", Quick Installation Guide. · "Test Printing", Quick Installation Guide · p.66 "Parallel Cable Connection". 53 2. Installing Options Installing the USB Host Interface Board · Connect the USB cable from a digital camera to the USB host interface board. · Connections between the USB host interface board and a computer are not supported. · Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the USB host interface board. · See p.

63 "Digital Camera Connection" for details. · Do not subject the USB host interface board to physical shocks. 1. Check the contents of the package. 2 ATU044S When using a cable other than the one included with the board, attach the two included ferrite cores to the cable.

2. Turn the printer off and unplug the power cable. 3. Loosen the two screws and remove the slot cover. ATU026S The removed cover will not be reused. 54 Installing the USB Host Interface Board 4. Fully insert the interface board. 2 ATU027S Confirm that the interface board is firmly connected to the controller board. 5. Tighten the two screws to secure the interface board. ATU028S · Confirm that the USB host interface board was correctly installed by printing the configuration page. If it is correctly installed, "USB Host" will appear for "Device Connection" on the configuration page. · If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative. · For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

· "Test Printing", Quick Installation Guide · p.63 "Digital Camera Connection" 55 2. Installing Options Installing a Camera Direct Print Card or Security Card 2 · Keep SD memory cards out of reach of children. If a child swallows a SD memory card, consult a doctor immediately. · Do not subject the card to physical shocks. 1. Check the contents of the package. AET104S 2. Turn the printer off and unplug the power cable. 3.

Remove the cover of the controller board's upper expansion card slot. ATU029S 56 Installing a Camera Direct Print Card or Security Card 4. Insert the expansion card into the slot until it clicks. 2 ATU030S 5. Reattach the slot cover (), and fasten the screws to secure it ().

ATU031S · Do not touch the card while the printer is in use. It may come loose, even if pushed only slightly. The slot cover must be reattached. · Confirm that the card was correctly installed by printing the configuration page. · If the camera direct print card is installed properly, "PictBridge" will appear for "Connection Equipment" in "System Reference".

· If the card is not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative. · For information on printing the configuration page, see "Test Printing", Quick Installation Guide. · "Test Printing", Quick Installation Guide 57 2. Installing Options 2 58 3. Connecting the Printer Cables Ethernet Cable Connection Prepare a hub and other network devices, and connect the Ethernet cable to the printer. Connect 10BASE T or 100BASE TX cable to the printer's Ethernet port. For 1000BASE T, the optional Gigabit Ethernet board is available. · An Ethernet cable is not supplied with this printer. Select your cable according to the network environment.

· The printer's Ethernet and USB ports are not available when the Gigabit Ethernet board is attached to the printer. Connecting to the standard Ethernet port 1. Attach the ferrite core supplied with this printer at the printer end of the Ethernet cable. 3 ASZ269S 2. Connect the Ethernet cable to the Ethernet port that is located on the left side of the printer. ATU032S 3. Connect the other end of the cable to the network, for example using a hub. 59 3. Connecting the Printer Cables Connecting to the Ethernet port of the Gigabit Ethernet board 1. Attach two ferrite cores to the Ethernet cable.

Attach the core supplied with the printer to the connector end, and the one supplied with the Gigabit Ethernet board about 15 cm (6 inches) from the connector end (). 3 ASZ269S 2. Connect the Ethernet cable to the Ethernet port of the Gigabit Ethernet board. ATU033S 3. Connect the other end of the cable to the network, for example using a hub.

· For details about configuring the network environment, see p.67 "Ethernet Configuration". · p.43 "Installing the Gigabit Ethernet Board". · p. 67 "Ethernet Configuration". 60 Ethernet Cable Connection Reading the LED Lamps Standard Ethernet port 3 ATU034S 1. Green: turns on when the printer is properly connected to the network. 2. Yellow: turns on when 100BASE-TX is in use. It turns off when 10BASE-T is in use.



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Optional Gigabit Ethernet board ATU035S 1. Yellow: turns on when 100BASE-TX is in use. 2. Green: turns on when 10BASE-T is in use.

3. Both the green and yellow lamps are lit when 100BASE-T is in use. 61 3. Connecting the Printer Cables USB Cable Connection · USB connection is possible under Windows 98 SE/Me/2000/XP, Windows Server 2003, Mac OS 9.x, and Mac OS X. · Windows Me supports USB1.1 speed. · USB connection with Mac OS is only possible via the printer's USB port, not the Gigabit Ethernet board's USB port. · A USB cable is not supplied with this printer. Select your cable according to the computer.

1. Connect the USB cable to the printer. · Connecting the USB cable to the standard USB port Connect the smaller connector of the USB cable to the USB port on the left side of the printer. 3 ATU036S · Connecting the USB cable to the Gigabit Ethernet board USB port Connect the smaller connector of the USB cable to the USB port of the Gigabit Ethernet board. ATU037S 2.

Connect the opposite end's flat connector to the desired device such as your computer's USB interface, or a USB hub. The printer is now connected to the computer. The Plug and Play screen appears on the computer display. See "Installing the Printer Driver Using USB", Software Guide for details. 62 USB Cable Connection · "Installing the Printer Driver Using USB", Software Guide · p.

43 "Installing the Gigabit Ethernet Board" Digital Camera Connection This printer supports direct printing, which allows you to print images taken with a digital camera by connecting the camera directly to the printer. The following describes how to connect the printer to a digital camera. 3 ASZ051S · This function requires the following optional units: · USB host interface board · Camera direct print card · The USB host interface board is supplied with a USB cable and a hook onto which you can hang the cable. · Make sure your digital camera supports PictBridge. 1. Confirm that the printer and digital camera are turned on. 2. Connect the digital camera to the printer. · Using the USB cable supplied with the USB host interface board 1. Connect to the larger connector of the USB cable to the USB host interface board.

63 3. Connecting the Printer Cables 3 ATU038S · Not using the USB cable supplied with the USB host interface board 1. Attach the two ferrite cores supplied with the USB host interface board to the USB cable. Attach a ferrite core at each end of the USB cable about 5 cm (2 inches) from the connector. ASZ246S 2.

Connect the larger connector of the USB cable to the USB host interface board. 3. Connect the other connector of the USB cable to the digital camera. 4. Attach the hook to hang the USB cable on when not connecting to the digital camera.

As shown below attach the hook where it will not interfere with printer operation and access. ATU045S · For the printing method, see "PictBridge Printing", Software Guide. 64 USB Cable Connection · p.54 "Installing the USB Host Interface Board" · p.56 "Installing a Camera Direct Print Card or Security Card" 3 65 3.

Connecting the Printer Cables Parallel Cable Connection The type of cable required varies depending on the computer you are using. Make sure to use the interface cable compliant with your computer. · The printer's parallel connection is a standard bidirectional interface that requires an IEEE 1284-compliant half pitch 36-pin parallel cable and host computer parallel port. 3 · Use shielded interface cable. Unshielded cables create electromagnetic interference.

1. Turn off the printer and computer. 2. Connect the interface cable to the IEEE 1284 interface board. ATU043S 3. Connect the other end of the interface cable to your computer, and then secure the cable. The printer is now connected to the computer. Install the printer driver. See "Preparation for Printing", Software Guide for details. · "Preparation for Printing", Software Guide · p.

52 "Installing the IEEE 1284 Interface Board" 66 4. Configuration Ethernet Configuration Configure the following network settings according to the network interface you are using. You can use SmartDeviceMonitor for Admin or a Web browser to configure IP address-related settings in a TCP/IP-capable environment. · Configure the printer for the network using the control panel. · The following table shows the control panel settings and their default values.

These items appear in the [Host Interface] menu. Setting Name · DHCP: On Machine IPv4 Address · IPv4 Address: 011.022.033.044 · Subnet Mask: 000.000.000.000 · Gateway Address: 000.000.000.

000 IPv6 Stateless Setting NW Frame Type Active Auto Select · IPv4: Active · IPv6: Inactive Effective Protocol · NetWare: Active · SMB: Active · AppleTalk: Active Ethernet Speed LAN Type Auto Select Ethernet Default 4 · If DHCP is in use on your network, the IP address, subnet mask, and gateway address are all set automatically. · Configure these setting as necessary. See Software Guide for details. 67 4. Configuration Specifying an IP Address (No DHCP) Follow this procedure to assign a specific IP address to the printer.

This is only necessary when you will use the printer on a network without DHCP, or want to prevent the printer's IP address from changing. Before beginning, make sure that you know the IP address, subnet mask and gateway address that the printer will use. 1. Press the [Menu] key. 4 ATU050S 2. Press the [] or [] key to select [Host Interface], and then press the [OK] key. 3. Press the [] or [] to select [Network], and then press the [OK] key. 4. Press the [] or [] key to select [Effective Protocol], and then press the [OK] key.

68 Ethernet Configuration 5. Press the [] or [] key to select the appropriate network protocol, and then press the [OK] key. 6. Press the [] or [] key to select [Active] or [Inactive], and then press the [OK] key. 4 Set other protocols you need to set in the same way. · Select [Inactive] for unused protocols. · Enable IPv4 to use the pure IPv4 environment of NetWare5/5.1, Netware 6/6.5. 7.

Press the [Escape] key until the screen returns to the [Network] menu. 8. If you use IPv4, assign the IPv4 address to the printer. Press the [] or [] key to select [Machine IPv4 Address], and then press the [OK] key. To get the IP address for the printer, contact your network administrator.

9. To specify the IP Address, press [IP Add]. If you use IPv4, also assign the subnet mask and gateway address. To assign these, press [Subnet M] or [Gateway]. 10.

Press the [] or [] to Enter the address, and then press the [OK] key. Press the [] or [] key to enter the left-most entry field of the address.



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After entering the left field, press the [] key, and then you can enter the next field. After completing entry of the all fields, press the [OK] key. Use the same method to assign the subnet mask and gateway address. · Change the IP address from "011.022.033.044" to an IP address supported by your network. 69 4.

Configuration 11. Press the [] or [] key to select [Specify], and then press the [OK] key. If you do not select [Specify] in this step, the address you set will not be saved. 12. Press the [Menu] key to return to the initial screen. 13. Print a configuration page to confirm the settings. 4 · For details about printing the configuration page, see "Test Printing", Quick Installation guide. Receiving an IP Address Automatically (DHCP) Follow this procedure to set the printer to receive an "IP address" automatically using "DHCP". The "DHCP" feature is active by default, so this procedure is only required if you have changed the default settings.

· When [DHCP] is selected, you cannot configure settings for the following items: · "IP Address" · "Subnet Mask" · "Gateway Address" · Consult your network administrator for information about configuring network settings. 1. Press the [Menu] key. ATU050S 70 Ethernet Configuration 2. Press the [] or [] key to select [Host Interface], and then press the [OK] key.

3. Press the [] or [] key to select [Network], and then press the [OK] key. 4. Press the [] or [] key to select [Machine IPv4 Address], and then press the [OK] key. 4 5.

Press the [] or [] key to select [Auto-Obtain (DHCP)], and then press the [OK] key. The printer will automatically receive an IP address. To check the detected addresses, press the followings: · [IP Address] IP address · [Subnet Mask] Subnet Mask · [Gateway] Default Gateway 6. Press the [Menu] key to return to the initial screen. 7. Print a configuration page to confirm the settings. · For details about printing the configuration page, see "Test printing", Quick Installation Guide. 71 4. Configuration Configuring Network Settings When Using NetWare If you use NetWare, select the appropriate NetWare frame type. Select one of the items below as necessary.

· Auto Select · Ethernet II · Ethernet 802.2 · Ethernet 802.3 · Ethernet SNAP 4 · Usually, you can use the default (Auto Select). When you first select [Auto Select,] the frame type detected by the printer is adopted. However, if your network can use more than two frame types, the printer may fail to select the correct frame type with [Auto Select] selected. In this case, select the preferred frame type. 1. Press the [Menu] key. ATU050S 2. Press the [] or [] key to select [Host Interface], and then press the [OK] key.

3. Press the [] or [] key to select [Network], and then press the [OK] key. 72 Ethernet Configuration 4. Press the [] or [] key to select [NW Frame Type], and then press the [OK] key. 5.

Press the [] or [] key to select the frame type to use, and then press the [OK] key. 6. Press the [Menu] key to return to the initial screen. 7. Print a configuration page to confirm the settings.

· For details about printing the configuration page, see "Test Printing", Quick Installation Guide. 4 Setting the Ethernet Speed You can set the speed that the printer will use for Ethernet communications. In most cases, this should be left on the default setting, [Auto Select]. This setting allows two interfaces to automatically determine the optimum speed when they are connected. Printer Router/HUB [10Mbps Half D.] [10Mbps Full D.] [100Mbps Half D.] [100Mbps Full D.] [Auto Select] 10 Mbps half duplex 10 Mbps full duplex 100 Mbps half duplex 100 Mbps full duplex 73 4. Configuration Printer Router/HUB [10Mbps Half D.

] [10Mbps Full D.] [100Mbps Half D.] [100Mbps Full D.] [Auto Select] auto-negotiation (auto selection) 4 · Connection cannot be established if the selected Ethernet speed does not match your network's transmission speed. · The use of this feature is recommended. To use it, select [Auto Select]. 1. Press the [Menu] key. ATU050S 2. Press the [] or [] key to select [Host Interface], and then press the [OK] key.

3. Press the [] or [] key to select [Network], and then press the [OK] key. 74 Ethernet Configuration 4. Press the [] or [] key to select [Ethernet Speed], and then press the [OK] key. 5.

Press the [] or [] key to select the Ethernet speed, and then press the [OK] key. 6. Press the [Menu] key to return to the initial screen. 7. Print a configuration page to confirm the settings.

· For details about printing the configuration page, see "Test Printing", Quick Installation Guide. 4 75 4. Configuration IEEE 802.11b (Wireless LAN) Configuration Configure the printer to use IEEE 802.11b (Wireless LAN). The following table shows the control panel settings and their defaults. These items appear in the [Host Interface] menu. Setting Name Communication Mode 802.11 Ad hoc Default 4 Channel 13 11 Communication Speed SSID WEP Auto blank Off · Ethernet and wireless LAN (IEEE 802.11b) cannot be used at the same time.

· To use IEEE 802.11b (Wireless LAN), set the following using the control panel: press the [Menu] key, and then select [Host Interface], [Network], [LAN Type], and then [IEEE 802.11b]. In addition, set the IP address, subnet mask, gateway address, DHCP, Frame Type (NW), and active protocol as explained in p.67 "Ethernet Configuration". 1. Press the [Menu] key. ATU050S 76 IEEE 802.11b (Wireless LAN) Configuration 2. Press the [] or [] key to select [Host Interface], and then press the [OK] key.

3. Press the [] or [] key to select [IEEE 802.11b], and then press the [OK] key. 4. Press the [] or [] key to select [Communication Mode], and then press the [OK] key.

4 5. Press the [] or [] key to select the transmission mode of IEEE 802.11b, and then press the [OK] key. · To communicate wirelessly with a device that does not require an SSID to be set, select [Ad hoc]. · The transmission mode of IEEE 802.

11b can also be set using the Web Image Monitor. For details, see Web Image Monitor help, and "Configuring the Network Interface Board Using Web Browser", Software Guide. 6. If [802.11 Ad hoc] or [Ad hoc] is selected for [Communication Mode], confirm the channel to use for transmission. 7. Press the [] or [] key to select [Channel], and then press the [OK] key. 8. Press the [] or [] key to select the appropriate channel, and then press the [OK] key. 77 4.

Configuration 9. Set [Communication Speed] in the same way. The default is [Auto Select]. If you need to change the transmission speed depending on the environment you are using, select the appropriate transmission speed.



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