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You can read the recommendations in the user guide, the technical guide or the installation guide for KONICA MINOLTA MICROSP 2000. You'll find the answers to all your questions on the KONICA MINOLTA MICROSP 2000 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

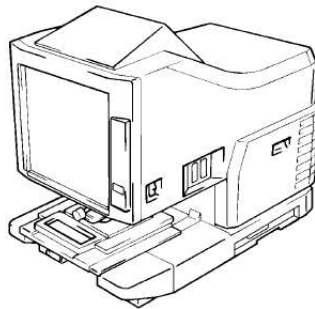
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0820-7706-12



MicroSP 2000

Operator's Manual



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Manual abstract:

Never subject the machine to shocks. @@Never bring any magnetized object near the machine. Never use flammable sprays, liquids or gases near the machine. Never modify the machine, as a fire or electrical shock could result. Never remove any panel or cover which is secured. @@@@Never drop paper clips, staples or other small pieces of metal through the vents or other openings in the machine, as a fire or electrical shock can result. Never place containers of liquid on the machine. If liquids get inside the machine, they can cause fire or electrical shock. If a piece of metal or any liquid gets inside the machine, immediately turn the machine off, unplug the power cord and call your Minolta authorized dealer. A fire or electrical shock can result if the machine remains plugged in or is operated after metal or liquid gets inside.

@@@@@Always insert the power plug all the way into the outlet. @@Always provide good ventilation when making a large number of continuous prints. Never pull on the power cord, and always hold the plug when unplugging the power cord. A damaged cord could result in a fire or cause an electrical shock. Never unplug the power cord with a wet hand, as it could cause an electrical shock.

Always unplug the power cord before moving the machine. Moving the machine with the power cord plugged in can damage the cord resulting in a fire or causing an electrical shock. Always unplug the power cord when the machine is not going to be used for a long time. Never place a heavy object on the power cord, or pull or bend it, as a fire or electrical shock can result. Always ensure that the machine does not sit on or move onto the power cord or communications cable of other electrical equipment, as malfunctioning equipment or a fire could result.

Always ensure that the power cord or communications cable of other electrical equipment does not become wedged into the machine mechanism, as malfunctioning equipment or a fire could result. Always use the correct power voltage, as improper voltage can cause a fire or electrical shock. Never use a multiple outlet adapter, as a fire or electrical shock can result. Using the Machine Properly Should the power cord become damaged, immediately turn the machine off, unplug the power cord and call your Minolta authorized dealer. A damaged cord can result in a fire or cause an electric shock. If an extension cord is needed, use one with a greater rated capacity than the maximum power requirements of the machine. The use of an extension cord that falls short of supporting the maximum power requirements can result in overheating or a fire. Always unplug the machine whenever anything unusual is observed during operation. Make sure that the outlet is nearby and clear of the machine and furniture. NOTE =Locate the Machine in a Well Ventilated Room= A negligible amount of ozone is generated during normal operation of this machine.

An unpleasant odor may, however, be created in poorly ventilated rooms during extensive machine operations. For a comfortable, healthy and safe operating environment, it is recommended that the room be well ventilated. REMARQUE =Placer le liappareil dans une pièce largement ventilée= Une quantité d'ozone négligeable est dégagée pendant le fonctionnement du liappareil quand celui-ci est utilisé normalement. Cependant, une odeur désagréable peut être ressentie dans les pièces dont l'aération est insuffisante et lorsqu'une utilisation prolongée du liappareil est effectuée. Pour avoir la certitude de travailler dans un environnement réunissant des conditions de confort, santé et de sécurité, il est préférable de bien aérer la pièce où se trouve le liappareil. i Welcome Thank you for choosing Minolta quality. For over 30 years Minolta has been a leader on the forefront of office equipment technology and service. Our desire has always been to bring you highly reliable products. We pledge to continue to provide you, our customer with our state of the art equipment, as well as full customer service for all our products. We look forward to a long healthy relationship with you and our company.

If you have any questions or comments about Minolta, our product or service, please let us know. Our fax number is 800-237-8087 (for U.S.A. and Canada). Thank you again. This operator's manual explains how to operate the unit and replenish its supplies. It also gives some troubleshooting tips as well as general precautions to be observed when operating the unit. To ensure the best performance and effective use of your unit, read this manual carefully until you familiarize yourself thoroughly with the unit's operation and features. Please keep this manual and use it as a quick and handy reference tool for immediately clarifying any questions that may arise.

Please follow the instructions given in this manual when handling the system and do not touch any part of the system the manual does not cover. NEVER attempt to disassemble or remodel the system. The contents of this manual are subject to change without notice. No part of this manual may be quoted, reproduced, or translated into any other language. ii Notes to Operators and Key Operators The following safety rules should be observed: [1] The unit should be kept free from moisture, dirt, dust and exposure to heat and direct sunlight at all times. [2] Keep hands, hair and clothing away from rollers and other moving parts. [3] Before removing the Projection Lamp Unit, confirm that the machine is turned "OFF". [4] Be sure that the proper voltage is used and that the machine is well grounded. The use of electrical extension cords is strongly discouraged. [5] For best performance, only authorized Minolta supplies are recommended for use with this unit.

Failure to use authorized Minolta supplies may cause damage to the unit, in which case the warranty may be rendered void. [6] Do not attempt to remove any Cover that is secured. WARNING This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. The design and production of this unit conforms to FCC regulations, and any changes or modifications must be registered with the FCC and are subject to FCC control. Any changes made by the purchaser or user without first contacting the manufacturer will be subject to penalty under FCC regulations.



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This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.
iii Safety Information (MSP 3000 Printer) Laser Safety This printer is a page printer which operates by means of a laser. There is no possibility of danger from the laser, provided the printer is operated according to the instructions provided in this manual. Since radiation emitted by the laser is completely confined within protective housing, the laser beam cannot escape from the machine during any phase of user operation. Internal Laser Radiation Maximum

Radiation Power: 8.8×10^{-4} (W) Wave Length: 770-810 (nm) This is a Class IIIB Laser Diode Assy.

that has an invisible laser beam. The print head unit is NOT A FIELD SERVICE ITEM. Therefore, the print head unit should not be opened under any circumstances. For United States Laser Safety This printer is certified as a Class 1 Laser product under the U.S.

Department of Health and Human Service (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation. CDRH Regulations The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured from August 1. Compliance is mandatory for products marketed in the United States. The label shown below indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States. WARNING: Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure. All other users WARNING: Use of controls, adjustments of performance or procedures other than those specified in this manual may result in hazardous radiation exposure.

This is a semiconductor laser. The maximum power of the laser diode is 8.8×10^{-4} W and the wavelength is 770-810 nm. iv Safety Information (MSP 3000 Printer) For Denmark ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsttelse for stråling. Klasse I laser produkt der opfylder IEC60825 sikkerheds kravene. For Finland, Sweden VAROITUS!: Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan I ylittävälle näkymättömälle lasersäteilylle. VARNING: Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsattas för osynlig laserstråling, som överskrider gränsen för laserklass I. VARO: Avattaessa ja suojalukitus ohitettaessa olet alittiina näkymättömälle lasersäteilylle. Aja katso sateeseen.

WARNING: Osynlig laserstråling när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. v Safety Information (MSP 3000 Printer) For Norway ADVARSEL: Dersum apparatet brukes på annen måte enn spesifisert i denne bruksanvisning, kan brukeren utsettes for usynlig laserstråling som overskrider grensen for laser klasse I. Dette er en halvleder laser. Maksimal effekt til laserdiode er 8.

8×10^{-4} W og bølgelengde er 770-810 nm. WARNING LABEL vi Safety Information (MSP 3000 Printer) OZONE RELEASE (For all Users) During printer operation, a small quantity of ozone is released. This amount is not large enough to cause any adverse affects or harm. However, be sure the room where the machine is being used has adequate ventilation, especially if you are printing a high volume of materials, or if the machine is being used continuously over a long period. WARNING LABEL vii Contents Chapter1 Safety Notes .

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.....s it's right and left sides to provide ample space for the ventilation ports to dissipate heat. 100 mm 100 mm or 4" 503 mm or 19-3/4" or 4" 100 mm or 4" 716 mm or 28-1/4" 1-4 1. Installation Precautions Printer Chapter 1 For ease of operation, maintenance and replenishment of supplies, the minimum clearance diagrammed below is required. Install the unit in an area that allows easy access. Printer for MicroSP 2000 H System Safety Notes 150mm 5-7/8" 150mm 5-7/8" 150mm 5-7/8" Printer for MicroSP 2000 L System 394 mm (15-1/2") 544 mm (21-4/5") 700 mm (27-1/2") 1-5 1. Installation Precautions Operating Environment The environmental requirements for operating the system are as follows: Temperature: Humidity: 10 °C to 35 °C (50 °F to 95 °F) with a fluctuation of 10 °C (18°F) per hour.

15% to 85% with a fluctuation of 20% per hour. Using the Printer To ensure the optimum performance of the printer, follow the precautions listed below: NEVER open any Cover, or turn OFF the printer during printing. NEVER bring any magnetized object or flammable gas or liquid close to the printer. ALWAYS insert the Power Plug all the way into the outlet. ALWAYS provide good ventilation when making a large number of continuous prints. NOTE = Locate the Printer in a Well Ventilated Room = A minimal amount of ozone is generated during normal operation of the printer. An unpleasant odor may, however, be created in poorly ventilated rooms during extensive printer operations. For a comfortable, healthy, and safe operating environment, it is recommended that the room be will ventilated. Care of Printer Supplies Use the following precautions when handling the printer supplies (Imaging Cartridge, paper, etc.). Avoid storing the supplies in any of the following places: · A place subject to direct sunlight. The Imaging Cartridge should not be exposed to fluorescent light, either. · A hot place or near an open flame. · A humid place. · A dusty place. Store paper, which has been removed from its wrapper but not loaded onto the print tray, in a sealed plastic bag in a cool, dark place. Only use Imaging Cartridges that are exclusively designed for use with this printer. Keep supplies out of the reach of children. If your hands become soiled with toner, wash them with soap and water immediately. NOTE Whenever the Imaging Cartridge is removed from the printer, immediately wrap it in a heavy cloth to protect it from light.

Safety Notes Chapter 1 1-6 2.

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Dark and light values of the print will be reversed. 3) Posi: Select when using positive film. @@@@Press to select between the Auto or Manual Exposure mode. Indicates the current density level of the printed image.

Auto Exposure mode is indicated when the green Auto light is on. @@Shows the number of prints set to be made.

@@@@@Control Panel Keys and Indicators When (Misfeed/Call-Tech.-Rep. @@Check the code shown on the Multi-Print Display and perform the misfeed clearing procedure or the CallTech.

-Rep. procedure. Malfunctions Procedure Code Description The Projection Lamp is burned out. Replace the lamp. See p.

2-32. * If the lamp goes out during a print cycle, a blank print may be output. The power to the printer is off or there is a problem with the connection of the interface cable to the printer. Turn on the printer or make sure that the interface cable is securely connected. The upper cover of the printer is not closed.

Make sure that it is completely closed. The printer is out of paper. Load some paper into the paper cassette. See p. 3-4.

Misfeed Clearing Procedure Locate the misfeed using the code and perform the misfeed clearing procedure. Code Description The wrong size paper has been loaded in the Paper Feeding Tray. Load 8-1/2"×11". This code also appears when two or more sheets of paper are taken up at the same time. A misfeed near the paper take-up section. A misfeed near the Imaging Cartridge. A misfeed near the Fusing Unit Scanner Chapter 2 2-12 3. Control Panel Keys and Indicators Call-Tech.Rep.Procedure A malfunction has occurred in the system.

Location Code Description Optical path switching failure Chapter 2 Scanner A Scanning malfunction A Fan Motor malfunction A Fusing Unit malfunction Scanner An Laser malfunction Printer A Polygon Motor malfunction A Main Drive Motor malfunction A Fan Motor malfunction Scanner Printer A Communication malfunction NOTE After turning the power to the system OFF and unplugging its power cord from the electrical outlet, contact your Minolta authorized dealer, being sure to provide him or her with the currently displayed code (Above code). 2-13 4. Image Processing Functions Screen Image Print Image Description The system masks the black bands that run along the edges of the image. Auto Masking (1 Frame) Trimming (1 Frame) The system masks everything but the center of the image. * The Manual Frame Masking Kit (option) is required.

Masking (1 Frame) The system masks the center of the image appearing on the screen through the Manual Frame Masking Panel function. * The Manual Frame Masking Kit (option) is required. The system generates an image that is centered on the printed page, from an image on the screen with a masked frame. Auto Centering Fit Fit the image on the Screen onto the entire surface of the print. Auto Skew Correction The machine automatically correct any skew of the image when printed.

* The Auto Image Rotation Kit (option) is required. Scanner Chapter 2 2-14 4. Image Processing Functions Screen Image Print Image Description The machine automatically determines the format (portrait or landscape) of the image on the Screen and prints it as necessary. * The Auto Image Rotation Kit (option) is required for MicroSP 2000 L System. Auto Film Format Select Print Scanner Chapter 2 Image Zoom The system magnifies the screen image according to the size of paper being used. The range of magnification is 1.30x or 1.56x for Ledger, and 1.28x for Legal sized paper. * This function is only available on the MicroSP 2000 H System.

2-15 5. Printing Here is an outline of the printing procedure: 1. Load the film The procedure for loading film is determined by the type of Film Carrier (optional) that is being used. Review the Operator's Manual that came with your Film Carrier for more information. 2. Select and replace the Lens See page 2-16. 3. Zooming, focusing and image rotation See page 2-18, 2-19. Use the Zooming Ring Dial to frame a desired range of the image on the screen for printing. Use the Focus Ring Dial to sharpen the clarity of the image on the screen.

Use the Image Rotation Knob to orient the image on the screen. @@4. Select either negative or positive printing See page 2-20. @@5. Select the image density See page 2-21.

@@@@6. Enter the number of prints to be made See page 2-22. Using the Multi-Print keys, enter the number of prints to be made. 7. Selecting the Output Format See page 2-23.

Using the Output selection key, set the Print Format setting. 8. If required, adjust the image processing functions. Auto Masking See page 2-25. Manual Masking (Masking or Trimming) See page 2-27. Image Centering or Fit See page 2-29. 9. @@@@Select the one that corresponds to the film being used. @@@@The lever should click into position. 2-18 8.

Zooming and Focusing Zooming of the Screen Image Focusing of the Screen Image Rotate the Focusing Ring Dial to bring the image on the Screen into focus. 1 Rotate the Zooming Ring Dial to bring the image on the Screen into print size frame. Scanner Chapter 2 2 Marked on the Screen are the size frame markers corresponding to the paper size (8-1/2"× 11"). Zoom the film image so that it fits inside the markers. 8-1/2" × 11" Length wise 8-1/2" × 11" Crosswise 2-19 9. Image Rotation To turn the image on the Screen, turn the Image Rotation Knob. If an optional Auto Image Rotation Kit (Option) is installed, the image can be turned electrically. Manual Rotation (standard): operate by hand Turn the Image Rotation Knob beside the Lens Holder to turn the image mechanically as required. Auto Skew Correction If the Auto Skew Correction Key is turned ON, the system will automatically correct any skew of the image when printed. Correction NOTE This function supports angle rotations of up to 30°.

Auto Image Rotation (option): Motor-driven Turn the Image Rotation Knob on the bottom right of the Screen Frame to turn the image. The greater the turning angle of the Image Rotation Knob, the faster the turning speed. Scanner Chapter 2 2-20 10. Selecting the Film Type Auto Posi (positive film) 1 The system will automatically determine the polarity of the film being used when Auto is selected with the Film Type key. 1 Posi If positive film is to be used, press the Film Type Key to select Posi.

Nega/Posi Chapter 2 Auto Nega Posi Film Type Auto Nega Posi Scanner NOTE · The system cannot determine the polarity of certain types of film. Should this occur, the film type should be selected manually. · The system does not detect exterior conditions such as when the glass surface of the Carrier is dirty or scratched. Nega (negative film) 1 If negative film is to be used, press the Film Type Key to select Nega. Nega Auto Nega Posi Film Type 2-21 11.



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Selecting the Image Density Using Auto Exposure Using Manual Exposure 1 Depress the Exposure Mode Select Button as necessary to select the Auto Exposure Mode. The LED to the left of the key lights up green when the Auto Exposure mode is selected. 1 Depress the Exposure Mode Select Button as necessary to select the Manual Exposure mode. The LED to the left of the key lights down green when the Auto Exposure mode is selected. Darker Darker Auto Auto Lighter Lighter 2 Depress the appropriate Exposure Adjustment Button, either LIGHTER or DARKER, to set the desired image density, or exposure, level. Depress LIGHTER to make the image lighter. Depress DARKER to make the image darker. When the LIGHTER and DARKER keys are depressed at once, the exposure level comes at the center. 2 Depress the appropriate Exposure Adjustment Button, either LIGHTER or DARKER, to set the desired image density, or exposure, level. Depress LIGHTER to make the image lighter.

Depress DARKER to make the image darker. When the LIGHTER and DARKER keys are depressed at once, the exposure level comes at the center. Darker Darker Auto Auto Lighter Lighter Scanner Chapter 2 2-22 12. Setting the Number of Prints to be Made To Entry the Number of Prints Set the desired number using the Multi-Print Key. NOTE The number that can be entered is 19 max. Scanner Chapter 2 Correcting Entry To correct an entry, depress the Clean Button, which resets the number on the Multi-Print Display to "1". 2-23 13. Selecting the Output Format Output Selection 90 degree image rotation will be performed during printing. NOTE It is necessary to install "Auto Image Rotation Kit" for this function. Upper Lower Upper Lower Output Selection The Paper in the Upper Tray will be fed.

Upper Lower Output Selection The Paper in the Lower Cassette will be fed. * MicroSP2000 H System only Upper Lower Upper Lower 90 degree image rotation will be performed with the Paper in the Upper Tray (Shown on left) or the Paper in the Lower Cassette (Shown on right). Upper Lower Output Selection The best suitable Paper on the Upper Tray or Lower Cassette will be fed to print. * MicroSP200 H System only Scanner Chapter 2 2-24 14. Zooming Functions Use the Optional Zooming Function (Please refer to page 2-18) Use the Fix Electrical Zooming Function (MicroSP2000 H System only) Output Selection Select lower output LED with 8-1/2" x 14" (Legal) size paper will produce a "1.

28x" zooming print. Select lower output LED with 11" x 17" (Ledger) size paper will produce a "1.30x" zooming print. NOTE Please contact Minolta Authorized Dealer to change. This zooming ratio from 1.

30x to 1.56x. Scanner Chapter 2 Upper Lower Use Flexible Electrical Zooming Function - up to 2.00x (MicroSP2000 H System only). A) Select "Fit" LED Centering/Fit Auto Manual Masking B) And select "Auto Masking" or "Manual Masking" By selecting A) Fit and B) Masking functions simultaneously, the screen image will be zoomed up under the following conditions: 1) The screen image will be zoomed up until one of the four edges of the image reaches the selected paper edge. or 2) 2.00x, whichever comes first. 2-25 15. Using Auto Masking The Auto Masking function prevents the frame (non-image area) of a film image from appearing on the print. Selecting Auto Masking 1 Press the Auto Masking key to turn ON this function.

Auto Manual Masking Operating Conditions for Auto Masking A. The image area of the screen must provide at least 45mm horizontally and vertically. B. The width of the frame to be masked must be at least 10mm. A B A B B B NOTE If the film image on the screen does not meet the above requirements, the Auto Masking function will not work properly. Auto Masking is a frame erasing feature. It cannot remove an image from in between two separate frames. AB A C Scanner Chapter 2 2-26 16. Manual Masking Panels (Optional) Scanner Chapter 2 Vertical Area Indication Panel: Use to specify the vertical print area of the image on the screen. There are 42 lights placed at 7mm intervals.

The lights create a pattern when lit specifying the area on the screen that will be printed. Vertical Area Clear Key: Press to clear a previously specified vertical print area. Horizontal Area Indication Panel: Use to specify the horizontal print area of the image on the screen. There are 42 lights placed at 7mm intervals. The lights create a pattern when lit specifying the area on the screen that will be printed.

Press to clear a previously specified horizontal print area. Horizontal Area Clear Key: 2-27 17. Using Manual Masking The optional Manual Frame Masking Kit allows you to specify an area for printing of the displayed image through two separate features, Trimming and Masking. Selecting Trimming Defining the Print Area 1 Press the (manual) Masking key to select (Trimming). 1 Auto Manual Masking 2 The lights on the panel light up according to the currently selected paper size and print position.

11" x 8-1/2" ON NOTE The points defining the vertical and horizontal area can be selected in any order. Blinking lights on the indication panels indicate an improper entry of the specified area. Specify the area again. ON NOTE It is possible to print the area specified by the green lights. Scanner Chapter 2 Define the end points for both the vertical and horizontal areas of the image on the screen using the green lights on the area indication panels. 2-28 17. Using Manual Masking Clearing a Defined Print Area 1 Press the Vertical and Horizontal Area Clear keys to clear the defined print area. 1: Horizontal Area Clear Key 2: Vertical Area Clear Key Scanner Chapter 2 Selecting Masking Press the (manual) Masking key to select of the image. (Masking) when you want to mask a given area The basic operation for manual Masking is similar to Trimming. Please refer to the previous procedures on Trimming and defining areas for instructions on performing manual Masking.

2-29 18. Using Centering and Fit Once the image on the Screen has been either "manually trimmed" or "auto masked", the Image Centering function moves the image to the center of the print. The Fit function however, fits the image on the Screen onto the entire surface of the print. Screen Image Centering: OFF Print Image Centering: ON Centering Fit: OFF Fit: ON Fit Centering Fit 1 Press the Centering/Fit key to turn ON Centering and then press the Print key. 1 Press the Centering/Fit key to turn ON Fit and then press the Print key. Centering/Fit Centering/Fit NOTE Centering/Fit mode cannot be used if (Masking) is selected.



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Scanner Chapter 2 2-30 19. Using the Cycle Print Mode This function automatically scans the next image following a preset period of time. Images are manually loaded onto the Carrier Glass in between cycles. This is a system setting that must be entered by an authorized dealer. If you want to use the Cycle Print Mode, ask your Tech. Rep. to make the necessary system setting. Then you can perform the following operations. Chapter 2 Specifying the interval between scanning operations 1 Press the Multi-Print Key to change the value to "A". This enables the Cycle Print Mode. Press the Multi-Print Key to set the interval of time between scan operations. (Refer to the diagram below). Scanner 2 Press the Memory Input key to store the currently selected interval setting of the Cycle Print Mode into the memory. Value 1 0. 5 2 1.0 3 1.5 4 2.0 5 2.5 6 3.0 7 3.5 8 4.0 9 4.5 0 5.0 Period (sec).

) 2-31 19. Using the Cycle Print Mode Operating in the Cycle Print Mode 3 1 After entering the Cycle Print Mode, press the Print key to start. While the pause function is enabled, it is possible to exit the Cycle Print Mode by pressing the Clear key a second time (the value displayed in the "No. of Copies" display will change to a "1".) Print Chapter 2 NOTE · After the first scanning operation has finished, the system will automatically scan the next image following a preset period of time. The system will continue to operate until the Cycle Print Mode is canceled. · The "No. of Copies" value flashes during the "scanning" and "waiting" operations. · The next scanning job can be started manually by pressing the Print key before the system automatically initiates the same job. 2 To pause an operation during the Cycle Print Mode, press the Clear key (the "No. of Copies" value will switch from a blinking display to a constant display). Scanner 2-32 20. Replacing the Projection Lamp Use the following procedure to replace the Projection Lamp whenever a reduction in brightness on the screen is detected or whenever the lamp burns out. Make sure that the replacement lamp is specified for use with this scanner. (DC20V 150W DDL type) If the Projection Lamp should burn out during a print operation, an L2 code will appear and the print job will stop (a blank piece of paper may be output depending upon the stage of the job).

Once the system detects that the Projection Lamp has burnt out, the scan job will be cancelled. If the system is operating in the Cycle Print Mode, the scanning operation will stop. CAUTION Do not touch with bare hand and extremely hot Projection Lamp immediately after the machine has been turned OFF. Scanner Chapter 2 1 Place the Power Switch in the OFF position and slide the Projection Unit out of the machine. 3 Remove the Projection Lamp from the Lamp Socket.

2 Remove the Projection Lamp from the Lamp Holder. 2-33 20. Replacing the Projection Lamp 4 Insert a new Projection Lamp so that the mark on its base is facing upwards. Make sure that the new Projection Lamp is inserted securely so that there is no gap between the Projection Lamp and the Lamp Socket. 6 Slide the Projection Unit back into the machine. NOTE If the Projection Unit is not properly installed, power will not be supplied and the machine will not operate. NOTE Do not touch the reflector mirror surface of the Projection Lamp. Fingerprints, smudges or debris should be wiped clean with a soft, dry cloth. Mark 7 Turn the Power Switch ON. 5 Insert the new Projection Lamp all the way into the Lamp Holder.

Scanner Chapter 2 Scanner Chapter 2 Memo 3-1 Chapter 3 MSP 3000 Printer This chapter identifies the different parts of the system and explains the MSP 3000 printer's operational procedures. MSP 3000 Printer Chapter 3 3-2 1. Using the Printer Parts of the Printer MSP 3000 Printer Chapter 3 Upper Unit Lock Release Lever: Power Indicator: Print Tray: Paper Guides: Paper Feeding Tray: (Upper Tray) Paper Cassette: (Lower Cassette) Power Switch: Use to open the Upper Unit. Light indicates when the Printer is turned ON. Prints are output from the Printer, face down onto this tray which can hold up to 500 sheets of standard paper. Slide the guides to secure the paper stack. Capable of holding up to 150 sheets of 8-1/2" x 11" paper. Capable of holding up to 250 sheets of standard-size paper. (8-1/2" x 11", 11" x 17", 8-1/2" x 14") Use to turn the Printer ON and OFF. 3-3 1.

Using the Printer Power Cord Socket: Upper Unit: Image Transfer Roller: Fusing Unit: The power cord is plugged into this socket. Open to replace the Imaging Cartridge and to clear misfed sheets of paper. Transfers the image onto the sheet of paper. Be careful to avoid touching it with your bare hands. Permanently fixes the image onto the sheet of paper.

* The Printer has two connectors to facilitate connection with two separate Scanner units. Interface Connectors: Facilitates connections for the Scanner. Imaging Cartridge: Seal: Where the image is generated for transfer onto the sheet of paper. Be careful to avoid touching it with your bare hands. Remove the seal before installing the new cartridge.

MSP 3000 Printer Chapter 3 3-4 2. Troubleshooting and Maintenance Replenishing the Paper Supply Use only the following types of paper: Type Size Plain and recycled paper (weight 16 to 24 lbs. / 60 to 90 g/m²) Standard sizes: 11" x 17", 8-1/2" x 11", 8-1/2" x 14". Capacity Paper Feeding Tray: 8-1/2" x 11" plain and recycled paper Up to 150 sheets Paper Cassette: 8-1/2" x 11", 11" x 8-1/2", 8-1/2" x 14" and 11" x 17" plain and recycled paper Up to 250 sheets

MSP 3000 Printer Chapter 3 3-5 2. Troubleshooting and Maintenance Loading Paper into the Paper Feeding Tray (Upper Tray) 1 Swing down the Paper Feeding Tray. NOTE · Make sure that the paper stack does not exceed the Maximum Level Indicator. 2 Fan the paper stack thoroughly and align the edges. · Load a new paper stack only after the old one has run out. 3 Load the paper stack face up in the tray and adjust the Paper Guides to secure the paper stack.

MSP 3000 Printer 4 Close the Paper Feeding Tray.

Chapter 3 3-6 2. Troubleshooting and Maintenance Loading Paper in the Paper Cassette (Lower Cassette) 1 Pull the cassette out of the Printer and open the Cover. 4 Close the Cover and insert the cassette into the Printer. Chapter 3 2 MSP 3000 Printer Press down the Paper Lifting Plate until it locks. Fan the paper stack thoroughly, align the edges, and place the paper in the cassette. 3 Secure the paper stack in the Paper Cassette with the Paper Guides.



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3-7 2. Troubleshooting and Maintenance Replacing the Toner Cartridge 1 Open the upper unit by pulling the Upper Unit Lock Release Lever forward. 4 Remove the seal from the Imaging Cartridge by pulling it steadily straight out. 2 Remove the old Imaging Cartridge from the printer. 5 3 Take a new Imaging Cartridge out of the box. Holding it with both hands, shake it well in the directions indicated by the arrows. 6 Slide the pins located on both sides of the Imaging Cartridge into the grooves of the printer as shown and gently push the Imaging Cartridge securely into place. MSP 3000 Printer Shake the Imaging Cartridge four or five more times as shown to evenly distribute the toner inside. Chapter 3 3-8 2.

Troubleshooting and Maintenance 7 Close the Upper Unit. MSP 3000 Printer Chapter 3 NOTE Push the Print Tray in before opening the Upper Unit. 3-9 2. Troubleshooting and Maintenance Clearing Misfeeds · If the Misfeed Code (P0) lights up: The Paper Feeding Tray is loaded with paper other than 8-1/2"×11". Load 8-1/2"×11" paper in the tray and open and close the Upper Unit.

· If the Misfeed Code (P1, P2, or P3) lights up: A misfeed has occurred in the Printer. Clear the sheet of misfed paper by following the procedure given below. CAUTION The Fusing Unit inside the printer becomes very hot during operation. To avoid a burn, be very careful not to touch it. 1 Open the Upper Unit by pulling the Upper Unit Lock Release Lever forward. 3 Remove the sheet(s) of paper that caused the misfeed from the Paper Feeding Tray. NOTE Push the Print Tray in before opening the Upper Unit. 4 Check that no misfed paper is left in the Printer and then reinstall the Imaging Cartridge. 2 Remove the Imaging Cartridge. 5 NOTE Be sure to cover the Imaging Cartridge with a heavy cloth to protect it from light when it is removed from the Printer.

Close the Upper Unit. MSP 3000 Printer Chapter 3 Clearing a Misfeed from the Paper Feeding Tray 3-10 2. Troubleshooting and Maintenance Clearing a Misfeed from the Paper Cassette 1 Open the Upper Unit by pulling the Upper Unit Lock Release Lever forward. 3 Remove the sheet(s) of paper that caused the misfeed as shown. Chapter 3 MSP 3000 Printer NOTE Push the Print Tray in before opening the Upper Unit. 4 Check that no misfed paper is left in the Printer and then reinstall the Imaging Cartridge. 2 Remove the Imaging Cartridge. 5 NOTE Be sure to cover the Imaging Cartridge with a heavy cloth to protect it from light when it is removed from the Printer. Close the Upper Unit. 3-11 2.

Troubleshooting and Maintenance Clearing a Misfeed from inside the Printer 1 Open the Upper Unit by pulling the Upper Unit Lock Release Lever forward. 4 If the misfeed occurred after the sheet of paper entered the Fusing Unit, gently pull the misfed sheet toward you and out as shown. NOTE Push the Print Tray in before opening the Upper Unit. 2 · Do not remove the misfeed by pulling on the sheet of paper toward the output end of the Fusing Unit as shown. NOTE Be sure to cover the Imaging Cartridge with a heavy cloth to protect it from light when it is removed from the Printer.

3 If the misfeed occurred before the sheet of paper entered the Fusing Unit, gently pull the misfed sheet up and out as shown. 5 Reinstall the Imaging Unit and close the Upper Unit. MSP 3000 Printer Remove the Imaging Cartridge. NOTE · Since the toner has not yet been fixed onto the sheet of paper, be careful not to soil your hands or clothes when pulling out the misfed sheet. Chapter 3 3-12 2.

Troubleshooting and Maintenance Solving Irregular Printing Problems Use the following procedures to fix minor printing problems. If print quality does not improve after implementing the procedures below, contact your Minolta authorized dealer. Symptom Light image Cause Action Print density is not properly Change the print density set. setting as necessary. A B C D E F A B C D E F A B C D E F A B C D E F A B C D E F Dark image Toner in the Imaging Car- Replace the Imaging Cartridge is running out. tridge with a new one. Chapter 3 Print density is not properly Change the print density set. setting as necessary. ABCD E F ABCD E F ABCD E F ABCD E F Partial void image MSP 3000 Printer The paper in the tray is Replace the damp paper damp. with fresh, dry paper.

A B C D E F A B C D E F A B C D E F A B C D E F A B C D E F A B C D E F 3-13 2. Troubleshooting and Maintenance Symptom Uneven image density Cause Action Toner in the Imaging Car- Remove the Imaging Cartridge is not evenly distrib- tridge, shake it several uted. times and replace. MSP 3000 Printer Chapter 3 A B C D E F A B C D E F A B C D E F A B C D E F A B C D E F Blank print The Printer has malfunc- Contact your Minolta autione. thorized dealer. MSP 3000 Printer Chapter 3 Memo 4-1 Chapter 4 Miscellaneous Miscellaneous This chapter contains the specifications of the unit as well as provides care and maintenance instructions. Chapter 4 4-2 1. Specifications MicroSP 2000 H System Type: Printing Method: Resolution: Developing System: Exposure Control: Type of Film: Microfilm Scanner Printer System Laser Electrostatic 400 dpi Minolta Fine Micro-Toning (Fine-MT) System Automatic & Manual Microfiche, Jackets, Aperture Cards, 16mm & 35mm Roll Film, 16mm Film Cartridges. 12" × 12" (300 mm × 300 mm) 7.5×, 9×-16×, 13×-27×, 23×-50× Prism Rotation (auto optional), Carrier Rotation (Microfiche) 8-1/2" × 11" Crosswise, 11" × 17" Lengthwise 8-1/2" × 11" Lengthwise, 8-1/2" × 14" Lengthwise 20 sheets per minute (8-1/2" × 11" : Crosswise) 13 seconds (8-1/2" × 11" : Crosswise) Less than 70 seconds 1-19 sheets (LED countdown identification) Automatic Feeding Supply from Paper Cassette (500 sheets max.) Less than 1100W (Scanner: 350W, Printer: 750W) 19-3/4"(W) × 32-3/8"(D) × 28-1/4"(H) (503 × 821 × 716 mm) 22"(W) × 20-1/2"(D) × 16"(H) (561 × 521 × 409 mm) 86 lbs. (39kg) 61-3/4 lbs. (28kg) <Including Imaging Cartridge> Lenses, Prism Unit, Fiche Carrier 5, Universal Carrier UC-2, Roll Film Carrier 9B, Roll Film Carrier 15A/15M, Roll Film Carrier 21, MARS Controller 4, MARS Mini Controller 2, Manual Frame Masking Kit, Auto Image Rotation Kit, Counter Kit Screen: Magnification: Image Rotation: Print Size: Chapter 4 Miscellaneous Print Speed: First Print Time: Warm-up Time: Multiple Printing: Paper Supply: Power Consumption: Dimensions Scanner: Printer: Weight Scanner: Printer: Options: * Specifications subject to change without notice. 4-3 1. Specifications MicroSP 2000 L System Type: Printing Method: Resolution: Developing System: Exposure Control: Type of Film: Microfilm Scanner Printer System Laser Electrostatic 400 dpi Minolta Fine Micro-Toning (Fine-MT) System Automatic & Manual Microfiche, Jackets, Aperture Cards, 16mm & 35mm Roll Film, 16mm Film Cartridges.



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12" x 12" (300 mm x 300 mm) 7.5x, 9x-16x, 13x-27x, 23x-50x Prism Rotation (auto optional), Carrier Rotation (Microfiche) 8-1/2" x 11" 19 seconds (8-1/2" x 11") Less than 20 seconds 1-19 sheets (LED countdown identification) Automatic Feeding Supply from multipurpose tray (250 sheets max.) Less than 930W (Scanner: 350W, Printer: 580W) 19-3/4"(W) x 32-3/8"(D) x 28-1/4"(H) (503 x 821 x 716 mm) 15-1/2"(W) x 17-1/2"(D) x 13"(H) (394 x 446 x 328 mm) 86 lbs. (39kg) 17 lbs. @@@@Here is a list of factory settings for these two setting types.

@@@System Settings Auto reset Description Setting changes made to the control panel that are not used within 60 seconds of being input are automatically cancelled and the system reverts back to the original settings. Selection Enabled Disabled Initial Setting Miscellaneous Auto power save Turns the Printer's fuser OFF if the system is left idle for a specific period of time. * 200V units operate on a default 30 minute Auto Power Save setting. Auto Projection Lamp OFF Turns the Scanner's Projection Lamp OFF if the system is left idle for a specified period of time. Applies the following functions as required: Contrast Emphasis: applied when film contains text that is poorly contrasted against its background making it difficult to read. @@60 min. Disabled 30 min. 60 min. @@@@Images are set by the user onto the Carrier Glass in between cycles. First paper feed size (MicroSP 2000 H System only) Enabled Disabled Determines the desired paper size from Lengthwise the first piece of paper fed into the Crosswise printer.

It is possible to feed the following paper sizes and orientations into the printer: Letter (Lengthwise) Letter (Crosswise) Contrast setting To view subtle images with standard ranges of density clearly: Light (1 - 7) To bring out the darker and lighter ranges of an image: Dark (+1 - +7) Lighter Normal Darker Miscellaneous Chapter 4 4-6 2. Initial Settings List System Settings Description Selection Disable Print Enable Print Enable Disable Initial Setting The print funcAfter a toner empty condition is detected, tion at the time of this function allows you to select either to Toner Empty stop printing or continue printing detection Auto Film Format Select print function The Auto Format Select Print Function is enable or disable through the control panel. This function is used for managing horizontal and vertical printing when Letter size paper is set crosswise/lengthwise into the paper feeding tray/paper feeding cassette. Enables the prism to rotate the screen image 90 degrees. Allows you to specify the paper source when Letter size paper is loaded in Lengthwise or Crosswise orientations into the both paper feeding tray and paper feeding cassette. Auto switching: Printing continues by automatically switching to the remaining paper source after paper in the specified paper source runs out. Disabling Auto Switching: A paper empty mode occurs and printing ceases after paper in the specified paper source runs out. The paper source must be refilled or the paper source must be switched by pressing the Output Selection Key in order to resume printing. 90 degree rotation setting Enable Disable Auto switching Disabling Auto Switching Miscellaneous Chapter 4 Automatic paper source switching (MicroSP 2000 H System only) Ledger sizeSelects percentage of enlargement to be enlarged printing used for printing on Ledger size paper. function (MicroSP 2000 H System only) 1.

30X 1.56X * To change any of the system settings described above, contact your Minolta authorized dealer. 4-7 3. System Care The system should be cleaned on a daily basis for optimal operating conditions. Cleaning the Scanner Screen Carrier Glass (Option) With a damp cloth, clean and remove any dust or debris from the surface of the Screen.

With a damp cloth, clean and remove any dust or debris from the surface of the Carrier Glass. 1 1 Outer Covers 2 1 Dust the exterior panels of the Scanner with a soft, dry cloth. To open the Carrier Glass, pull the handle of the Microfiche Holder. Following the same procedure described in Step 1, wipe the inner surfaces of the Carrier Glass. 3 Dry and polish the glasses with a soft, dry cloth to prevent spotting or smearing.

Miscellaneous NOTE NEVER use alcohol or any other solvent when cleaning to avoid causing damage to the Screen or erasing the frame size markers. NOTE Before cleaning the Carrier Glass, be sure to remove the Projection Lens from the Scanner. Chapter 4 4-8 3. System Care Cleaning the MSP 3000 Printer Clean the Printer at regular intervals. NOTE · Before cleaning the Printer, turn OFF the power and unplug the cord from the power outlet. · Use a soft cloth and NEVER use abrasives or corrosive detergents. Exterior Panels 1 Clean the exterior panels with a soft, dry cloth. A damp cloth and a mild home detergent can be used for heavier cleaning. Miscellaneous Chapter 4 4-9 For Key Operator's Use When you need to call for service, the Key Operator should be prepared to provide the following information to your Minolta authorized Dealer. 1.

Your Company Name, Address, Telephone Number, Department Name, Floor Number, Machine Location, etc. 2. Model Name, Serial Number, Condition or System(s) Indication(s) on the Display, etc. For your reference purpose. MicroSP 2000 H System Scanner Serial No. Model Name Printer MicroSP 2000 L System Scanner Serial No. Printer Serial No. Serial No. Attached Accessories Serial No. Serial No.

Serial No. Installation Date Authorized Dealer's Name TEL. No. Address Miscellaneous Serial No. Chapter 4 Serial No.

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