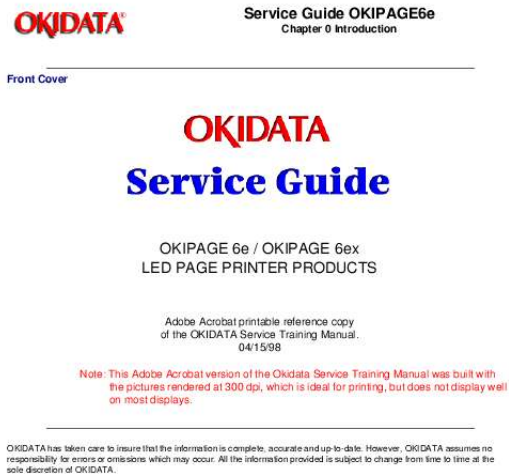




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**User manual OKI OKIPAGE 6E**  
**User guide OKI OKIPAGE 6E**  
**Operating instructions OKI OKIPAGE 6E**  
**Instructions for use OKI OKIPAGE 6E**  
**Instruction manual OKI OKIPAGE 6E**



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*PARTS LIST Page 156 Page: 2 Service Guide OKIPAGE6e Chapter 1 Configuration OKIPAGE 6e and OKIPAGE 6ex consist of control and engine blocks in the standard configuration, as shown in Figure 1-1. In addition, the options marked with asterisk (\*) are available. Figure 1.1 Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 3 Service Guide OKIPAGE6e Chapter 1 Configuration The printer unit consists of the following hardware components: Electrophotographic Processor Paper Feeder Main Control PCB Operator Panel (OKIPAGE 6ex Only) Power Supply Unit The printer unit configuration is shown in Figure 1-2. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved.*

*See the OKIDATA Business Partner Exchange (BPX) for any updates to this material. (http://bpx.okidata.com) Page: 4 Service Guide OKIPAGE6e Chapter 1 Configuration The options shown below are available for use with OKIPAGE 6e and OKIPAGE 6ex. These are available separately from the printer unit.*

*(1) IMB Memory Expansion Board (OKIPAGE 6e/6ex) (2) SIMM Memory OKIPAGE 6e :1/2/4/8/16 Mbyte OKIPAGE 6ex :1/2/4/8/16/32 Mbyte (3) Legal/Universal Paper Cassette/ (4) High Capacity Second Paper Feeder (5) Multi-Purpose Feeder Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 5 Service Guide OKIPAGE6e Chapter 1 Configuration External dimensions Weight Developing*

*method Exposing method Paper used Height 6.  
3" (160 mm) Width 12.6" (320 mm) Depth 14.17" (360 mm) 8 kg Dry electrophotography LED stationary head <Type> Standard paper Application paper (manual face-up feed) - Label - Envelope - OHP paper (Transparency) <Size> - Xerox 4200 (20 lbs) Standard sizes - Letter (ODA) - Legal (option) - Executive - Envelope - A4 - A5 - B5 - A6 Applicable sizes - Width: 3.94" to 8.5" (100 to 216 mm) - Length: 5.83" to 14" (148 to 355.6 mm) <Thickness>  
Automatic feed: 16 to 24 lbs (60 to 90 g/m<sup>2</sup>) Manual feed: Label, OHP paper (transparency), Envelope Printing speed First print: 17 sec. Continuous print: 6 sheets/min. for letter size paper Warm-up time: 60 sec. [at room temperature 77°F (25°C) and rated voltage (120 VAC)] Automatic feed or manual feed  
Face down/face up 300 x 300 dots/inch (OKIPAGE 6e) 600 x 600 dots/inch (OKIPAGE 6ex) 600 x 1200 dots/inch (OKIPAGE 6ex) 120 VAC +5.*

*5%, -15% (ODA) 230 VAC +15%, -15% (ODA) Paper feeding method Paper delivery method Resolution Power input Power consumption Temperature and humidity Noise Consumables Peak: Approx. 420W Typical operation: Approx. 160W Idle: Approx. 55W Power save mode: Approx. 15W During operation: 50 to 90°F (10 to 32°C) In storage: 14 to 110°F (-10 to 43°C) During operation: 48 dB (A) or less Standby: 38 dB (A) or less Toner cartridge kit 2,000 (5% duty) Image drum cartridge 20,000 (at continuous printing) 15,000 (3 pages/job) 10,000 (1 page/job) Copyright 1997, Okidata, Division of OKI America, Inc.*

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*1 Certification Label The safety certification label is affixed to the printer at the location described below. 1.5.2 Warning Label The warning labels are affixed to the sections which may cause bodily injury. Follow the instructions on warning labels during maintenance.*

*1.5.3 Warning/Caution Marking The following warning and caution markings are made on the power supply board. ENGLISH Heatsink and transformer core present risk of electric shock. Test before touching.*

*FRENCH Le dissipateur thermique et le noyau du transformateur présentent des risques de choc électrique. Testez avant de manipuler. SPANISH Las disipadores de calor el núcleo del transformador pueden producir un choque eléctrico. Compruebe antes de tocar. PORTUGUESE O dissipador de calor e o núcleo do transformador apresentam risco de choque elétrico. Teste antes de focar. ENGLISH Circuits maybe live after fuses open. FRENCH Il se peut que les circuits soient sous tension une fois que les fusibles ont été retirés.*



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SPANISH Las circuitos pueden estar activos una vez que se hayan abierio los fusibles. PORTUGUESE Os circuitos podem estar energizados após os fusiveis se queimarem.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 7 Service Guide OKIPAGE6e Chapter 2 Operation Description OKIPAGE 6e, OKIPAGE 6ex consists of a Main Control PCB, a power supply/sensor board, a PostScript board (OKIPAGE 6ex), an operator panel and an electrophotographic process mechanism. The soft operator panel is used for operation and status display of OKIPAGE 6e and OKIPAGE 6ex. The operator panel is used for operation and status display of OKIPAGE 6ex. The OKIPAGE 6e and OKIPAGE 6ex receive data via the host I/F, these then decode, edit and store the data in memory. Bit map image data is successively transferred to the LED head in one dot line units. OKIPAGE 6e block diagram is shown in Figure 2-1.

OKIPAGE 6ex block diagram is shown in Figure 2-2. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 8 Service Guide OKIPAGE6e Chapter 2 Operation Description Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 9 Service Guide OKIPAGE6e Chapter 2 Operation Description Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com)ly board monitors the paper running state during printing. Sensor Layout Diagram (Figure 2-3) Sensor Functions and StatusTable (Figure 2-5) Sensor Inlet sensor 1 Function Detects the leading edge of the paper and gives the supervision timing for switching from hopping operation to feeding operation. Monitors paper feeding situation and paper size based on the paper arrival time and running time. Detects the form width. Detects the leading portion of the paper. Monitors the paper feeding situation. Outlet sensor Sensing state ON: Paper exists.

OFF: No paper exists. Inlet sensor 2 Paper sensor OFF: No paper exists. ON: A4 or larger OFF: Smaller than A4 ON: Paper exists. Monitors the paper feeding and size according to the time of arrival to and leaving past the sensor. Detects the end of the paper. Detects the lack of toner. ON: Paper exists. OFF: No paper exists. ON: Paper exists. OFF: No paper exists.

Paper end sensor Toner low sensor Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 14 Service Guide OKIPAGE6e Chapter 2 Operation Description This mechanism actuates the printing of image data supplied by the control board on the paper by electrophotographic process.

Image Drum Unit The image drum unit consists of a sensitive drum, a charger, and a developer. The unit forms a toner image on the sensitive drum, using an electrostatic latent image formed by the LED head. Registration Motor The registration motor is a pulse motor of 48 steps/rotation, that is two-phase excited by the signal from the Main Control PCB. It drives the hopping and registration rollers via two one-way clutches according to the direction of rotation. Drum Motor The drum motor is a pulse motor of 48 steps/rotation that is two-phase excited by the signal from the Main Control PCB and is the main motor of this mechanism.

LED Head Image data for each dot line from the control board is received by the shift register and latch register. The 2496 LED's (OKIPAGE 6e)/4992 LED's (OKIPAGE 6ex) are driven to radiate the image data on the image drum. Fuser The fuser consists of a heater, a heat roller, a thermistor and a thermostat. The AC voltage from the power supply board is applied to the heater controlled by the HEATON signal from the control board. This AC voltage heats the heater. The Main Control PCB monitors the heat roller temperature via the thermistor, and regulates the heater roller to a predetermined temperature (165°C) by connecting or disconnecting the AC voltage supply to the heater. When an abnormal rise of the heater roller temperature takes place, the thermostat of the heater voltage supply circuit becomes active and forcibly cuts the AC voltage supply. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.

okidata.com) Page: 15 Service Guide OKIPAGE6e Chapter 2 Operation Description The electrophotographic processing is outlined below. The electrophotographic printing process is shown in Figure 2-7. The electrophotographic process timing chart is shown in Figure 2-8. Charging The surface of troller. When the light from the LED head irradiates the image drum surface, the light energy generates positive and negative carriers in the CGL. The positive carriers are moved to the CTL by an electrical field acting on the image drum. Likewise, the negative carriers flow into the aluminum layer (ground). The positive carriers moved to the CTL combine with the negative charges on the image drum surface accumulated by the contact charge of the charge roller, lowering the potential on the image drum surface. The resultant drop in the potential of the irradiated portion of the image drum surface forms an electrostatic latent image on it.

The irradiated portion of the image drum surface is kept to about -100 V. Developing Toner is attracted to the electrostatic latent image on the image drum surface, converting it into a visible toner image. Developing takes place through the contact between the image drum and the developing roller. 1. As the toner supply roller rotates while rubbing on the developing roller, a friction charge is generated between the developing roller and the toner, allowing the toner to be attracted to the developing roller (the developing roller surface is charged positive and the toner, negative). 2. The toner attracted to the developing roller is scraped off by the doctor blade, forming a thin coat of toner on the developing roller surface. 3. Toner is attracted to the exposed portion (low-potential part) of the image drum at the contact of the image drum and the developing roller, making the electrostatic latent image visible. An illustration of activities at the contact point of the image drum surface and the developing roller (arrow marks denote the direction of the electric field).

Note: The bias voltage required during the developing process is supplied to the toner supply roller and the developing roller, as shown in the diagram below. -450 VDC is supplied to the toner supply roller, -300 VDC to the developing roller. Transfer The transfer roller is composed of conductive sponge material, and is designed to get the image drum surface and the paper in a close contact. Paper is placed over the image drum surface, and the positive charge, opposite in polarity to that of the toner, is applied to the paper from the reverse side. The application of a high positive voltage from the power supply to the transfer roller causes the positive charge inducement on the transfer roller surface, transferring the charge to the paper as it contacts the transfer roller.



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The toner with negative charge is attracted to the image drum surface, and it is transferred to the upper side of the paper due to the positive charge on the reverse side of the paper. Fusing When the image transfer is completed, the toner image is fused to the paper by heat and pressure as the paper with unfused toner image passes between the heater roller and the back-up roller. The heater roller with Teflon coating incorporates a 400W heater (Halogen lamp), which heats the heat roller. A thermistor which is in contact with the heater roller regulates the temperature of the heater roller at a predetermined level (about 165°C). A safety thermostat cuts voltage supply to the heater off by opening the thermostat in the event of abnormal temperature rises.

The back-up roller is held under a pressure of 3.8 kg applied by the pressure spring on each side. Cleaning When the transfer is completed, the residual toner left on the image drum is attracted to the cleaning roller temporarily by static electricity, and the image drum surface is cleaned. Cleaning of rollers The charge, transfer and cleaning rollers are cleaned for the following cases: Warming up when the power is turned on. Warming up after the opening and closing of the cover. When the number of sheets accumulated reaches 10 or more, and the printout operation ends. User initiated. Changes in bias voltage applied to each roller moves the attaching toner off the roller to the image drum and returns it to the developer. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved.

@(http://bpx.okidata.com) Page: 17 Service Guide OKIPAGE6e Chapter 2 Operation Description The paper jam detection function monitors the paper condition when the power is turned on and during printing. When any of the following conditions arises, this function interrupts the printing process. If any of the following errors is encountered, printing can be recovered by removing the jammed paper (by opening the upper cover, removing the jammed paper and closing the upper cover).

Error Paper input jam Cause of error The paper is in contact with the inlet sensor when the power is turned on. After hopping operation is attempted three times, the leading edge of the paper does not reach the inlet sensor. The paper is in contact with at the paper sensor when the power is turned on. The leading edge of the paper does not reach the paper sensor within a predetermined distance since the paper has reached the inlet sensor. The trailing edge of the paper does not pass over the paper sensor within a predetermined distance after the same has passed over the inlet sensor.

The leading edge of paper does not reach the outlet sensor within a predetermined distance after the paper has reached the paper sensor. The paper is in contact with the outlet sensor when the power is turned on. The paper does not pass over the outlet sensor within a predetermined distance after the leading edge of the paper has reached the outlet sensor. The paper size check for manual feeding finds that the paper size is free size. The size of the paper is monitored by the inlet sensor 1. The paper is not detected by the inlet sensor 1 within predetermined distance. The inlet sensor 2 detects that the size of the loaded paper is A4 or larger, or smaller than A4. The detected paper size differs from the paper size set by command or menu. The paper size check for manual feeding finds that the paper size is free size. Paper feed jam Paper exit jam Paper size error Paper Feed Timing Chart Type of error Paper feed error Paper feed jam Paper feed jam Paper size error Paper exit jam Paper feed jam Monitor Hopping start to Inlet sensor on Inlet sensor on to Write sensor on Write sensor on to Outlet sensor on Inlet sensor on to Inlet sensor off Outlet sensor on to Outlet sensor off Inlet sensor off to Write sensor off Standard value 72.

0 20.0 Error Plus Minus Error 36.0 \_ 20.0 25.0 \_\_ 45.0 45.0 \_ 140.5 Depends on the paper length Depends on the paper length 22.2 45.0 45.0  
0 22.0 Unit : mm Note: Hyphen "-" in the table represent "no check is done." Paper Length List Type A4 A5 B5 LETTER LEGAL 13 LEGAL 14 EXEC A6  
Monarch COM-9 COM-10 DL C5 Free Paper length 297.0 210.0 257.  
0 279.4 330.2 355.6 266.7 148.  
0 190.5 225.4 241.3 220.0 229.0 110.0 ~ 355.6 Check range Min. 252.0 165.  
0 212.0 234.4 285.2 310.6 221.7 103.0 145.5 180.4 196.3 175.  
0 184.0 65.0 Check range Max. 342.0 255.  
0 302.0 324.4 375.2 400.6 311.  
7 193.0 235.5 270.4 286.3 265.0 274.0 400.6 Unit : mm Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @(http://bpx.

okidata.com) Page: 18 Service Guide OKIPAGE6e Chapter 2 Operation Description When the stacker cover is opened, the cover open microswitch on the power/sensor board is turned off to cut +5V supply to the high voltage power supply circuit. This results in the interruption of all high-voltage outputs. At the same time, the CVOPN signal is sent to the control board to notify that the microswitch is off, and the control board carries out the cover open process.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @(http://bpx.okidata.com) Page: 19 Service Guide OKIPAGE6e Chapter 2 Operation Description Device The Toner Low Detection device consists of a stirring gear which rotates at a constant rate, a stirring bar and a magnet on the stirring bar. The stirring bar rotation is driven by the link to the protrusion in the stirring gear.

Operation Toner Low is detected by monitoring the time interval of the encounter of the magnet set on the sensor lever and the magnet on the stirring bar. Operation during Toner Full state The stirring bar is rotated due to the mechanical transmission of energy originating from the interlocking with the stirring gear. Even when the magnet on the stirring bar reaches the maximum height, the stirring bar is pushed by the stirring gear, since the other end is being dipped in the toner. Operation during Toner Low state When the stirring bar reaches the maximum height, it falls to the minimum height due to its own weight, since there is no resistance provided by the toner on the other side. Because of this, the time interval during which it is in encounter with the magnet of the sensor lever becomes longer.

By monitoring this time interval, Toner Low can be detected. When the Toner Low state is detected 2 times consecutively, Toner Low is established. When the Toner Full state is detected 2 times consecutively, Toner Low is canceled. When there is no change with the toner sensor for 2 cycles (4.875 sec.

x 2) or more, then the Toner Sensor Alarm is activated. The toner sensor is not monitored while the drum motor is in halt. TONER FULL State Diagram Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @(http://bpx.okidata.com) Page: 20 Service Guide OKIPAGE6e Chapter 3 Parts Replacement The section explains the procedures for replacement of parts, assemblies, and units in the field.



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Only the disassembly procedures are explained here. For reassembly, reverse the steps of disassembly procedure. (1) Before starting the parts replacement, remove the AC power cord and interface cable.

(a) Remove the AC power cord in the following sequence: i) Turn off ("o") the power switch of the printer. ii) Disconnect the AC inlet plug of the AC power cord from the AC receptacle. iii) Disconnect the AC power cord and interface cable from the printer. (b) Reconnect the printer in the following sequence. i) Connect the AC power cord and interface cable to the printer. ii) Connect the AC inlet plug to the AC receptacle. iii) Turn on ("I") the power switch of the printer. (2) Do not try to disassemble as long as the printer is operating normally. (3) Do not remove parts which do not need to be touched; try to keep the disassembly to a minimum. (4) Use specified service tools.

(5) When disassembling, follow the procedure in sequence laid out in this manual. Parts may be damaged if these sequences are not followed. (6) Since screws, collars and other small parts are likely to be lost, they should temporarily be attached to the original positions during disassembly. (7) When handling IC's such as microprocessors, ROM's and RAM's, or circuit boards, do not wear gloves that are likely to generate static electricity. (8) Do not place printed circuit boards directly on the equipment or floor.

[Service Tools] The tools required for field replacement of printed circuit boards and units are listed in Table 3-1. Table 3-1 Service Tools Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com)

Page: 21 Service Guide OKIPAGE6e Chapter 3 Parts Replacement This section describes the layout of main parts of the equipment. [Lower base unit] Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 22 Service Guide OKIPAGE6e Chapter 3 Parts Replacement Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 23 Service Guide OKIPAGE6e Chapter 3 Parts Replacement Copyright 1997, Okidata, Division of OKI America, Inc.

All rights reserved. @@(http://bpx.okidata.com) Page: 24 Service Guide OKIPAGE6e Chapter 3 Parts Replacement This section explains how to change parts and assemblies listed in the disassembly diagram below. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved.

@@(http://bpx.okidata.com) Page: 25 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) With the power switch turned off, unplug the AC power cord from the outlet. (2) Disconnect the interface cable 1.

(3) Remove the option board D if it is mounted. (4) Lift the left side of the operator panel assy (or logo frame) 4 and remove it. (5) Disconnect the flexible cable 5 from the connector (CN1) 6 of the operator panel PCB 6, and put the cable inside the cover. (OKIPAGE 6ex only) (6) Open the stacker cover assy 9 by pressing the knobs 8 on the left and right sides. (7) Remove the image drum unit 0.

(8) Remove two screws A, and open the manual feed guide assy B. Lift the front of the upper cover C up and release the claws at two locations on the back side. Align the stacker cover 9 against the diagonal line of the square holes of the upper cover and lift up the upper cover C slightly, then remove it. Note:

When removing or installing the upper cover, be careful not to damage the cable 5. Copyright 1997, Okidata, Division of OKI America, Inc.

All rights reserved. @@(http://bpx.okidata.com) Page: 26 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover. (See 3.3.1) (2) Remove two stacker clamps 1 and the stacker 2 by bending the upper cover. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved.

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okidata.com) Page: 27 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Open the stacker cover. (2) Remove the flexible cable (LED) 1 from the PC connector 2 of the LED head 3. (3) Remove the LED head by prying the left side free from the retaining clip. Note: Be careful to not lose the contact (LED) 4. Note: Be sure not to directly touch or push the SLA part of the LED head. After mounting the new LED head, set drive time of the LED head according to the marking on the LED head (see 4.3.1 or 4.3).

(2) For the installation of the flexible cable (LED) 1, install the PC connector 2 to the flexible cable (LED) 1 first, then connect the LED head 3 to the PC connector. When installing a new LED head, be careful not to lose the contact (LED) 4. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved.

@@(http://bpx.okidata.com) Page: 28 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1).

(2) Press the clamp on the left side of the eject roller assy 1 in the direction of the arrow. Detach the eject roller assy from the lower base unit 2, and remove it. Note: When installing the eject roller, verify the proper engagement with the main unit. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 29 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1).

(2) Remove the connector 3 from (CN2) 2 of the Main Control PCB 1. (3) Remove two screws 4 and remove the pulse motor (main) 6 from the motor bracket 5. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 30 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the connector 3 from (CN3) 2 of the Main Control PCB 1.

(3) Remove two screws 4 and remove the pulse motor (registration) 6 from the motor bracket 5. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com)

com) Page: 31 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the connecting cables 4 and 5 of the pulse motor from the connectors 2 and 3 of the Main Control PCB 1. (3) Remove the connector 6 of the LED head from the Main Control PCB 1.

(OKIPAGE 6e: 1 connector, OKIPAGE 6ex: 2 connectors) (4) Remove seven screws 7, then remove the lower base unit 8. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 32 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3).

7). (3) Stand the lower base unit on its side as shown, and unlock two clamp levers, then remove the motor assy 1. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 33 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.

3.7). (3) Remove the motor assy (see 3.



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3.8).

(4) With the lower base unit 1 standing on its side, remove the one-way clutch gear 2 and the bearing (A) 3, then remove the hopping roller assy 4 and the bearing (B) 5. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. See the OKIDATA Business Partner Exchange (BPX) for any updates to this material. (<http://bpx.okidata.com>) Page: 34 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the motor assy (see 3.3.8). (3) Remove the reset lever R 1. (4) Detach the reset spring 2 from the lower base unit 3, turn the reset level L 4 in the direction of the arrow A until it stops, and remove it in the direction of the arrow B. (5) Release two pins of the lower base unit 3, then remove the stacker cover assy 5.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 35 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the motor assy (see 3.3.8). (4) With the lower base unit standing on its side (view A), remove the one-way clutch gear 1. (5) Press the registration roller 2 to the right side (in the direction of the arrow as shown) and lift up the left side.

Remove the registration roller 2 and the bearing (registration) 3. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 36 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) With the power switch turned off, unplug the AC power cord from the outlet. (2) Open the stacker cover. (3) Release TR gear 1 by unlocking the latch 4 of the main unit (never apply an excessive force when unlocking the latch). (4) Lift the right side of the transfer roller 2, and shift it to the right side, then pull it out from the main unit (at this time, the bearings 3 of the left and right sides of the transfer roller 2 will release themselves). Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 37 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the stacker cover assy (see 3.3.10). (4) Remove four screws 1 and remove the fusing unit 2.

Caution: Fusing unit assy may be hot. Use care when handling.

Note: When installing or removing the fusing unit assy, tighten or loosen the screws while holding the fusing unit down with your hand. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. See the OKIDATA Business Partner Exchange (BPX) for any updates to this material. (<http://bpx.okidata.com>) Page: 38 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the fusing unit assy (see 3.3.13). (2) Lift the left side of the back-up roller 1, and pull it out to the left side (at this time, two bushings 2, the bias springs 3 and washers 4 and 5 will release themselves).

Note: Do not bend or lose springs. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 39 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Press the clamps of three sensor plates (inlet) 1, and remove the sensor plates by pressing them upward from the bottom side. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 40 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Press the clamp of the toner sensor 1, and remove the sensor by pushing it up from the bottom. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 41 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the eject roller assy (see 3.3.4). (3) Remove the lower base unit (see 3.3.7). (4) Remove the fusing unit assy (see 3.3.13). (5) Press the clamp of the sensor plates (outlet) 1, and remove the sensor plate by pushing it up from the bottom.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 42 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Open the manual feed guide assy 1, and release the engagement on both sides with the main unit by carefully bending the manual feed guide assy 1. Note: At the time of mounting, verify the proper the engagements as shown in the diagram. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 43 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Press the clamp of the sensor plate (paper supply) 1, and remove it from the base plate 2.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 44 Service Guide OKIPAGE6e Chapter 3 Parts Replacement Note: When replacing the Main Control PCB, the contents of the EEPROM shall be copied to the new PCB. This process requires a maintenance utility. (See 4.3.1 4 and 4.3.2 4 for details.) The Main Control PCB is different for each model. OKIPAGE 6e : LSD OKIPAGE 6ex : L6A (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.8). (3) Remove two screws 1. (4) Move the Main Control PCB 2 in the direction of arrow A to disconnect it from the power supply board 3.

(5) Remove the Main Control PCB 2 together with the PCB guide plate 4 (disconnect the fan motor connector 5 from the Main Control PCB). (6) Remove three screws 6 and remove the PCB guide plate 4 from the Main Control PCB 2. Do not bend or lose ground plate 9. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 45 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the Main Control PCB (see 3.3.20). (4) Remove the AC inlet 1 from the inlet holder 2, and remove the connector 3 of the transformer. (5) Remove the screws 4, and remove the ground cable 5. (6) Remove three screws 6, and remove the power supply board 7 and contact assy 8 at the same time. (7) Unlock two claws 9, and remove the contact assy 8 from the power supply board 7.

Note: When mounting the lower base unit, be careful about the paper end sensor. Do not apply excessive force to the power switch during reassembly. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 46 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the connectors (CN1 and CN2). (4) Remove the inlet 3 from the inlet holder 2.

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Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 46 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the connectors (CN1 and CN2). (4) Remove the inlet 3 from the inlet holder 2.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 46 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the connectors (CN1 and CN2). (4) Remove the inlet 3 from the inlet holder 2.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 46 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the connectors (CN1 and CN2). (4) Remove the inlet 3 from the inlet holder 2.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 46 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the connectors (CN1 and CN2). (4) Remove the inlet 3 from the inlet holder 2.

Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(<http://bpx.okidata.com>) Page: 46 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the upper cover (see 3.3.1). (2) Remove the lower base unit (see 3.3.7). (3) Remove the connectors (CN1 and CN2). (4) Remove the inlet 3 from the inlet holder 2.



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(5) Remove two screws 1, and remove the inlet holder 2 and the transformer 4.

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Page: 47 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the paper cassette. (2) Remove the upper cover (see 3.3.1). (3) Remove the lower base unit (see 3.3.7). (4) Remove the Main Control PCB (see 3.3.20).

(5) Remove the power supply board (see 3.3.21). (6) Remove the screw 1, and remove the cassette guide L 2 by shifting it in the direction of the arrow. (7) Detach the eject spring 3, and remove the support spring 4 from the cassette guide L 2. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @ (<http://bpx.okidata.com>) Page: 48 Service Guide OKIPAGE6e Chapter 3 Parts Replacement (1) Remove the paper cassette.

(2) Remove the upper cover (see 3.3.1). (3) Remove the lower base unit (see 3.3.7).

(4) Remove the Main Control PCB (see 3.3.20). (5) Remove the screw 1, and remove the cassette guide R 2 by shifting it in the direction of the arrow. (6) Pull the eject spring 3 out of the cassette guide R 2, then remove the support spring 4. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @ (<http://bpx.okidata.com>) Page: 49 Service Guide OKIPAGE6e Chapter 4 Adjustment The software Maintenance Utility for the OKIPAGE 6e is covered in Appendix D. How to Get the OKIPAGE 6e Maintenance Utility Program The Maintenance Utility Program for the OKIPAGE 6e can be obtained as listed below. Internet Web Site at [www.okidata.com](http://www.okidata.com) OKILINK II Bulletin Board Service at 1-800-283-5474 You will need the items / settings listed below.

Asynchronous Communications Software set to 8 Data Bits No Parity 1 Stop Bit Asynchronous Modem up to 9600 BPS w/error correction IBM Graphics/ANSI terminal emulation Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @ (<http://bpx.okidata.com>) Page: 50 Service Guide OKIPAGE6e Chapter 4 Adjustment This chapter describes the adjustment necessary when replacing a part. The Adjustment is made by changing the parameter value set in the EEPROM on the Main Control PCB. In the OKIPAGE 6e, this is set by the key operation from the operator panel. This printer has three kinds of maintenance modes, and it is necessary to select one of the modes when replacing the part. In the OKIPAGE 6e, this is set using the software Maintenance Utility described in Appendix D. 4.

2.1 Maintenance Modes and Functions User Maintenance Mode This mode is being released to end-users, but it is rarely accessed. To enter into the user maintenance mode, turn the POWER switch on while holding the MENU key down. Function There are following five functions: Hex dump Drum counter reset Menu reset Operator panel menu disable X-adjust / Y-adjust Detailed descriptions of these functions are provided in Appendix C, DIAGNOSTICS TEST.

System Maintenance Mode Note: This mode is used only by service persons and it should not be released to the end-users.

To enter into the system maintenance mode, turn the POWER switch on while holding the RECOVER key down. Function There are following five functions: Page count display Page count printing enable/disable EEPROM reset Rolling ASCII continuous printing HIPER-W ENABLE/DISABLE SIDM ENABLE/DISABLE Detailed descriptions of these functions are provided in Appendix C, DIAGNOSTICS TEST. Engine Maintenance Mode Note: This mode is used only by service persons, and it should not be released to the end users. To enter into the engine maintenance mode, turn the POWER switch on while holding the FORM FEED and ENTER keys down. Function There are following functions : Head drive time setting Drum count total display Printing start position setting Engine reset Drum count display Factory adjustment LED head width setting LED head type setting (Adjustment method for adjustment head) Transfer current setting Optical LED head (Mounting head type) Setting of strobe time Selection of standby temperature Engine test Note: "Printing start position setting" is for shipping.

Do not change its default value. Detailed descriptions of these functions are provided in Appendix C, DIAGNOSTICS TEST. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @ (<http://bpx.okidata.com>) Page: 51 Service Guide OKIPAGE6e Chapter 4 Adjustment The following table lists parts that require adjustment after replacement. Parts LED head Required Adjustment LED head drive time LED head width Type of the LED head Drum counter reset (Refer to the user's manual for details.) Upload/Download EEPROM data Image drum unit Control P.C.

B. LED Head Drive Time Setting Caution: Do not change the LED head drive time when the luminous energy indicated on the new LED head is the same as that of the old LED head. The LED head drive time is set in the LED Head Marking No. on the Engine Menu of the Maintenance Utility. Input the value printed on the serial No. label on the LED head. The last 3 digits indicates the luminous energy of the LED head. (See Fig. 4-2.) LED Head Luminous Energy LED Head Width Setting There are two types of LED head width.

The type of the LED head is distinguished by the serial No. label on the head. Set the LED Head Width on the Engine Menu accordingly. (See Fig. 4-2.) How to distinguish LED head width LED Head Type Setting There are two types of LED data wire: 1 wire type and 2 wires type. For this printer, 1 wire type is used. Select "Data wire 1 wire type" LED Head Wire on the Engine Menu. (See Fig. 4-2).

LED head data wire type 300-1W: Data wire 1 wire type 300-2W: Data wire 2 wires type Uploading/Downloading EEPROM data When the controller printed circuit board is replaced, the contents of the old EEPROM shall be copied to the new EEPROM on the new board to preserve customer settings. For the purpose, use the EEPROM operation on the Option of the Maintenance Utility. (See Appendix F.) To copy, follow the steps below. (1) Be sure to confirm that the printer and the PC are connected with a centronics I/F cable. Then execute the Maintenance Utility. (Note: Printer driver shall be deinstalled.) (2) Select the Option on the Maintenance Utility. (3) Click the "UPLOAD EEPROM" button on the "EEPROM Operations". (4) The contents of the EEPROM data is displayed on the "DIALOG" of the Maintenance Utility.

The contents of the old EEPROM is now copied into the memory of the PC. (5) Replace the controller P.C.B. with a new one while it displays the above "DIALOG". (6) After the replacement, click "Download EEPROM" on the "EEPROM Operations". EEPROM upload has been completed. In case of troubles such as centronics I/F failure, etc. EEPROM data may not be uploaded properly. In such case, it is necessary to adjust the following settings manually after the replacement using the Maintenance Utility.



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LED driver time (See 4.3.1 above.) LED head width setting (See 4.3.

1 above.) LED head data wire type (See 4.3.1 above.) Factory setting (ODA/OEL/INT-A/INT-L) Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 52 Service Guide OKIPAGE6e Chapter 4 Adjustment Adjustment is necessary when replacing any one of the following parts. Parts LED head Required Adjustment LED head drive time LED head width LED type Drum counter reset (Refer to the User's Manual.) EEPROM data Upload/Download (See 4.3.1 4.) Image drum unit Main Control Board Setting of LED Head Drive Time Note: When the luminous intensity marking of the replacement LED head (new part) is same as that of the removed LED head (old part), do not set the LED head drivetime. Luminous Intensity Marking Label Setting of LED Head Drive Time (OKIPAGE6e) Drive time of the LED head is set by setting the parameter of drive time of EEPROM according to the luminous intensity marking on the LED head.

Luminous Intensity Marking and Drive Time Parameter Table Luminous intensity marking on LED head 056 ~ 062 063 ~ 065 066 ~ 069 070 ~ 076 077 ~ 082 083 ~ 088 089 ~ 096 097 ~ 104 105 ~ 112 113 ~ 121 122 ~ 131 Drive time parameter 34 33 32 31 30 29 28 27 26 25 24 Luminous intensity marking on LED head 132 ~ 142 143 ~ 154 155 ~ 167 168 ~ 180 181 ~ 195 196 ~ 211 212 ~ 228 229 ~ 247 248 ~ 268 269 ~ 290 291 ~ 313 Drive time parameter 23 22 21 20 19 18 17 16 15 14 13 Procedure Example: Method for setting the parameter to 19 (for case where the previous parameter setting was 21). Setting of LED Head Drive Time (OKIPAGE 6ex) Drive time of the LED head is set by setting the parameter of drive time of EEPROM according to the luminous intensity marking on the LED head. Luminous Intensity Marking and Drive Time Parameter Table Luminous intensity marking on LED head 027 ~ 028 029 ~ 030 031 ~ 032 033 ~ 035 036 ~ 037 038 ~ 040 041 ~ 043 044 ~ 046 047 ~ 049 050 ~ 052 053 ~ 057 058 ~ 060 061 ~ 064 Drive time parameter 27 26 25 24 23 22 21 20 19 18 17 16 15 Luminous intensity marking on LED head 065 ~ 069 070 ~ 073 074 ~ 079 080 ~ 084 085 ~ 090 091 ~ 096 097 ~ 103 104 ~ 110 111 ~ 118 119 ~ 126 127 ~ 135 136 ~ 144 145 ~ 154 Drive time parameter 14 13 12 11 10 9 8 7 6 5 4 3 2 Procedure Example: Method for setting the parameter to 19 (for case where the previous parameter setting was 8). Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved.

@@(http://bpx.okidata.com) Page: 53 Service Guide OKIPAGE6e Chapter 5 Periodical Maintenance The parts are to be replaced periodically as specified below: Part name Toner cartridge Image drum cartridge Condition for Cleaning replacement About 2,000 sheets of LED head. paper have been printed. About 20,000 sheets of paper have been printed.

Remarks Consumables Consumables Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 54 Service Guide OKIPAGE6e Chapter 5 Periodical Maintenance Remove any toner or dust accumulated inside the printer.

Clean in and around the printer with a piece of cloth when necessary. Use the handy cleaner (vacuum) to clean inside the printer. Note: Do not touch the image drum, LED lens array, or LED head connector block. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved.

@@(http://bpx.okidata.com) Page: 55 Service Guide OKIPAGE6e Chapter 5 Periodical Maintenance Clean the LED lens array or replace the toner cartridge when white lines or stripes (void, light printing) are generated vertically down the page. Note: The LED lens array must be cleaned with an LED head cleaner, provided with each toner kit. (1) Set the LED head cleaner to the LED lens array as shown in the figure, then slide the cleaner back and forth horizontally several times to clean the head. Note: Gently press the LED head cleaner onto the LED lens array. (2) Throw the cleaner away. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.

okidata.com) Page: 56 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures 6.1 Troubleshooting Tips (1) Check the basic check points covered in the user's manual. (2) Gather as much information about the problem from the customer as possible. (3) Inspect the equipment under the conditions close to those in which the problem had occurred. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 57 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures (1) Is the printer being used in proper ambient conditions? (2) Are supplies (toner) and routine replacement parts (image drum unit) being replaced properly? (3) Does the paper being used meet specifications? (4) Is the image drum unit being loaded properly? Copyright 1997, Okidata, Division of OKI America, Inc.

All rights reserved. @@(http://bpx.okidata.com) Page: 58 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures (1) Do not touch, or bring foreign matter into contact with the surface of the image drum. (2) Do not expose the image drum to direct sunlight.

(3) Keep hands away from the fuser unit as it heats up during operation. (4) Do not expose the image drum to light for longer than 5 minutes at room temperature. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.

okidata.com) Page: 59 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures PC Display (OKIPAGE 6e) The failure status of the printer is displayed by the display of the PC. Take proper corrective action as directed by messages which are being displayed on the display of the PC. There are 4 types of LED display status: On, Normal blinking, Fast blinking and Off. Type On Normal blinking Fast blinking Off Function On-line (Ready), Warming up Data receiving ~ Printing Recoverable alarm (paper end, cover open, etc.) Power off, Initializing, Unrecoverable alarm Remarks 0.5 sec. interval 0.12 sec. interval Operator Panel Display (OKIPAGE 6ex) The failure status of the printer is displayed by the liquid crystal display (LCD) of the operator panel.

Take proper corrective action as directed by messages which are being displayed on the LCD. Status message display Ready LED display Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 60 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures Should there be a problem with the printer, troubleshoot according to the following procedure flow: Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 61 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures The status and problems which may be displayed by messages on the LCD or PC display are listed in Table 6-1 (OKIPAGE6e) and 6-2 (OKIPAGE6ex).

PC Display Messages (Table 6-1) Category Controller errors PC display status message Controller Error Trouble or status An error occurred in the controller.



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Remedy Normal operation cannot be ensured. Turn the power off, then back on to restart. If normal operation is not recovered by this restart procedure, replace the Main Control PCB. Replace the Main Control PCB.

Program ROM Check An error was detected Error by program ROM check. When replacing the Main Control PCB, upload/download the EEPROM data. (Refer to 4.3.1-4.)

) Font ROM Check An error was detected Replace the Main Control PCB. Error by font ROM check. When replacing the Main Control PCB, upload/download the EEPROM data. (Refer to 4.3.1-4.) Resident RAM Check An error was detected Replace the Main Control PCB. Error by resident RAM check. When replacing the Main Control PCB, upload/download the EEPROM data. (Refer to 4.)

3.1-4.) EEPROM Check Error An error was detected Replace the Main Control PCB. by EEPROM check. When replacing the Main Control PCB, upload/download the EEPROM data. (Refer to 4.3.1-4.) Optional Software An error was detected Check the optional software ROM ROM Check Error by optional software board for proper connection or ROM check. replace it.

Optional RAM Check An error was detected Check the optional RAM board for proper connection. Error by optional RAM check. Check the mounting position of short plugs and additional RAM chips. (See 7.4.)

) Replace the optional RAM board. FAN Motor Error A fault occurred in the fan motor. Check the fan motor for proper connection and for any presence of foreign matter in the fan. (See 6.5.)

2-5.) Replace the fan motor or the Main Control PCB. See 6.5.2-4. A fault occurred in the fusing unit. (Time-out error, etc.) Thermistor Open A fault occurred in the Check Error fusing unit. (Thermistor open check error) Thermistor Short A fault occurred in the Check Error fusing unit. (Thermistor short check error) SSIO Interface Error Power supply board SSIO I/F error Second Tray Time-out I/F time-out occurred Error between the Main Control Board and the 2nd Tray.

Multipurpose Feeder I/F time-out occurred Time-out Error between the Main Control Board and the multi feeder. Watch Dog Time-out A watch dog time-out Error occurred. Fuser Error See 6.5.2-4. See 6.5.2-4. Replace the power supply board or the Main Control PCB. @@(Refer to 4.3.1-4.) Check the cover to release the error display. @@Check the paper in the cassette. Open and then close the cover.

@@If this error occurs frequently, see 6.5.2 2-1. @@@@Open and then close the cover. @@ If this error occurs frequently, see 6.5.2 2-2. Paper Exit Jam Jam occurred during Check the paper in the cassette. paper ejecting. Open and then close the cover. @@ If this error occurs frequently, see 6.5.2 2-3. @@@simultaneously. Set the designated paper in the tray.

@@ If this error occurs frequently, see 6.5.2-3. Tray# Paper Out The tray being displayed Load paper in the tray. has run out of paper. @@line message to the first line's tray is requested. @@The page buffer is overflowing because it received too much data for printing on the page. DLL Buffer Overflow The DLL buffer is overflowing. Macro Buffer Overflow Macro buffer is overflowing. Send Buffer Overflow The send buffer is Normal operation overflowing. Print Overrun Error The printer overrun because the print data is too complicated to be printed. Ready Warming Up The printer is warming up. Initializing Message displayed to indicate that the controller is undergoing an initialization when the power is turned on. Ready The printer is the on-line mode. Ready Power Saving The printer is in the power-saving mode.

Printing Demo The printer is printing a demo page. Printing Menu The printer is printing a menu page. Printing Fonts The printer is printing a font page. Printing The printer is printing a page. Ejecting The printer is ejecting a page.

Manual Paper In There is a paper on the manual tray. Reset The data which remained unprinted in the buffer is deleted and the printer is initialized to user default settings. The temporary DLLs and macro are deleted. Ready Toner Low Toner is running out. Replace the toner cartridge. Ready Toner Sensor Normal operation can be Problem continued. Receive Buffer Overflow Page Buffer Overflow Toner Sense Ready Change Drum Unit A fault occurred in the toner sensor. Normal operation can be continued. Image drum is running out. Normal operation can be continued.

Replace the power supply board. Replace the image drum unit. After replacing the drum unit, reset the drum counter. (Refer to the User's Manual.) LCD Status Messages (Table 6-2) Category Controller errors LCD status message Trouble or status An error occurred in the controller. n = Exception Code aaaaaa = Error Address Remedy Normal operation cannot be ensured. Turn the power off, then back on to restart. If normal operation is not recovered by this restart procedure, replace the Main Control PCB. An error occurred in the Turn the power off, then back on to controller. recover from the error. If the normal operation is not recovered by this restart procedure, use the following remedial actions. The upper cover was Close the cover to release the error opened. display. @@@A jam occurred during Check the paper in the cassette. Open paper hopping from the and then close the tray being displayed tray: cover.

When the TRAY 1, TRAY 2, cover is closed, FEEDER recovery printing is carried out and the error display is released. If this error occurs frequently, see 6.5.2 2-1. Cover open Jam errors A jam occurred during paper feeding after completion of paper hopping from the tray being displayed.

tray: TRAY 1, TRAY 2, FEEDER Open the cover, Paper size error Tray paper out remove the paper, then close the cover. @@ If this error occurs frequently, see 6.5.2 2-2. Jam occurred during Open the cover, remove the paper, paper ejecting. then close the cover. @@ If this error occurs frequently, see 6.5.2 2-3. Paper of improper size is Check the paper in the tray or check to being fed from the tray see if more than one being displayed.

tray: sheet of paper were TRAY 1, TRAY 2, being fed FEEDER simultaneously. Set the designated paper in the tray. @@ If this error occurs frequently, see 6.5.2-3. The tray being displayed Load paper in the tray. has run out of paper. @@@@Resend the data from the host to the printer. Replace the interface cable or control board. @@for printing on the page.

@@The DLL buffer is Press the operator panel RECOVER overflowing. key to release the (for OKIPAGE 6ex, in HP error display. @@Macro buffer is Press the operator panel RECOVER overflowing. key to release the (for OKIPAGE 6ex, in HP error display. 4 mode) Install additional optional RAM board or reduce the macros.

@@@printed. Simplify page data formatting. The printer is in the Normal operation. off-line mode. The second line indicates the emulation.

@@@Normal operation. The printer is processing data Post Script mode only. @@The printer is printing a page. @@data in on-line mode. @@Ready flashing: The printer is receiving data. All fonts of the printer are Normal operation. being printed during self-test. The current menu setting Normal operation.



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is being printed. Ready ON: Executed by command entry.

Ready flashing: Executed by key operation. @@@@Post Script mode only Normal operation. @@@@printer is processing the job, if the JOB RESET Press RESET key. The job is canceled. menu is ON. @@Post Script mode only Normal operation. @@mode) The message goes off when the job cancellation is completed. The data which remained Normal operation. @@The temporary DLLs and macros are deleted. This message is Normal operation.

@@Toner is running out. This Replace the toner cartridge. message is displayed together with other message on the first line. Normal operation can be continued. A fault occurred in the Replace the power supply board.

tonersensor. @@Normal operation can be continued. @@Normal operation can be continued. The printer is in the power-saving mode. @@@@Normal operation.

@@@@n = Exception Code An error was detected by program ROM check. An error was detected by font ROM check. An error was detected by resident RAM check. @@@@option RAM board. @@ Replace the fan or the Main Control PCB. See 6.5.2-4. 71 72 73 74 A fault occurred in the fuser (time-out error etc.).

A fault occurred in the fuser (thermistor open error). A fault occurred in the fuser (thermistor short error). Power supply board SSIO I/F error I/F time-out occurred between the Main Control PCB and the operator panel. See 6.5.2-4. See 6.5.2-4. 80 Replace the power supply board or the Main Control PCB.

Check the operator panel for proper connection. Replace the flexible cable, operator panel or Main Control PCB. 81 90 I/F time-out occurred between the Main Control PCB and the optional tray (2nd tray, envelope feeder, etc.). A watchdog timer time-out occurred.

Check the optional tray for proper connection. Turn the power off, then back on to recover from the error. Replace the Main Control PCB. Check valid CPU list. 91 Invalid CPU was used.

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4. 5. Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 63 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 64 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@(http://bpx.okidata.com) Page: 65 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures Copyright 1997, Okidata, Division of OKI America, Inc.

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@@ (http://bpx.okidata.com) Page: 74 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@ (http://bpx.okidata.com) Page: 75 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures Image drum Developing roller Toner supply roller Charging roller Cleaning roller Transfer roller Heat roller Back-up roller Frequency 3.71" (94.2 mm) 1.66" (42.4 mm) 2.27" (57.8 mm) 1.56" (39.6 mm) 1.24" (31.4 mm) 2.01" (51.0 mm) 2.47" (62.8 mm) 2.72" (69.08 mm) Remedy Replace or clean the image drum unit. Replace the image drum unit. Replace the transfer roller. Replace the fusing unit assy. Replace the back-up roller.

Notes: 1. After replacing the image drum unit, set the printer in the user maintenance mode by turning the power on while pressing the MENU key, and reset the drum counter (see User's Manual). 2. After replacing the fusing unit assy, set the printer in the engine maintenance mode by turning the power on while pressing the FORM FEED and ENTER keys, and reset the fuser counter (see 4.1). Copyright 1997, Okidata, Division of OKI America, Inc. All rights reserved. @@ (http://bpx.okidata.com) Page: 76 Service Guide OKIPAGE6e Chapter 6 Troubleshooting Procedures Copyright 1997, Okidata, Division of OKI America, Inc.

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