

EMP156 User's Guide

Read and keep this manual
Read Safety Summary carefully and understand them before starting your operation. Keep this manual at hand for reference.

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Rev. Table

Rev. for Manual	Machine Rev.	Page No. (Contents)	Date
00	-	First Edition	Jul. 21, 2005
01	-	vi, 2-11, 2-12, 2-14, 2-16, 2-17, 2-20 - 2-22, 3-3, 3-5 - 3-30, 6-2, 6-5 - 6-41	Sep. 15, 2005
02	-	v(01), vi(02), viii(01) : Some headings and Page No. are modified.	Nov. 17, 2005
		Safety Summary-2(01) ~ Safety Summary-4(01) : Some WARNING statements and CAUTION statements are modified.	
		2-7(01) : Figure is changed.	
		2-11(02) : Figure is changed, and "Paper Color" is added.	
		2-12(02) : "HCF Tray Control" is added.	
		2-13(01), 2-14(02) : Contents are moved from previous page.	
		2-15(01) : "PCL" is added.	
		2-16(02) : Contents are moved from previous page.	
		2-17(02) : "Paper Color" is added.	
		2-18(01) : "HCF Tray Control" and "PCL" are added.	
		2-19(01) : Figure is corrected.	
		2-20(02) : Contents are moved from previous page.	
		2-21(02), 2-22(02) : "Language" is changed.	
		2-23(01) : Figure is changed, and "Configuration" is added.	
		2-24(01), 2-25(01) : Contents are moved from previous page.	
		2-26(01) : Page is added.	
		3-1(01), 3-3(02): Title is changed to "Paper Size, Paper Weights, Paper Types and Paper Color".	
		3-5(02) : "Tracing Paper" is added.	
		3-6(02) : "Paper Color" is added.	
		3-7(02) ~ 3-30(02) : Contents are moved from previous page.	
		4-11(01) ~ 4-15(01) : Figure number is changed.	
		4-33(01) ~ 4-36(01) : Procedure of step 8 ~ step 13 is modified, and a caution is added.	
		4-37(01) ~ 4-41(01) : Step number is changed.	
		4-42(01) ~ 4-59(01) : Contents are moved from previous page.	
		4-60(01) : Page is added.	
		5-7(01) : Add the notation for the HCF Tray Control.	
		6-2(02) : Language is changed.	

Rev. Table

Rev. for Manual	Machine Rev.	Page No. (Contents)	Date
02	-	6-4(01) : Figure is changed.	Nov. 17, 2005
		6-5(02) : Language is changed, and Figure is changed.	
		6-6(02) : Figure is changed.	
		6-7(02) : “Error Information” is deleted.	
		6-8(02) : Contents of “Tray” is changed.	
		6-9(02) ~ 6-17(02) : Figure is changed.	
		6-18(02) : Contents of “Tray” is changed.	
		6-19(02) ~ 6-21(02) : Figure is changed, and explanation is modified.	
		6-22(02) : Explanation is added.	
		6-23(02), 6-24(02) : Figure is changed.	
		6-25(02) : Figure is changed, and explanation is modified.	
		6-26(02) ~ 6-28(02) : Figure is changed.	
		6-29(02), 6-30(02) : Figure is changed, and explanation is added.	
		6-31(02) : Explanation is added.	
		6-32(02) ~ 6-36(02) : Figure is changed, and explanation is added.	
		6-37(02) ~ 6-39(02) : Figure is changed.	
		6-40(02) : Contents are moved from previous page.	
		6-41(02) ~ 6-43(02) : Figure is changed.	
		6-44(02), 6-45(02) : Figure is changed, and explanation is added.	
		6-46(02), 6-47(01) : Figure is changed, and explanation is modified.	
		6-48(01) : Figure is changed, and explanation is added.	
		6-49(01) : Explanation is added.	
		6-50(01) : Figure is changed.	
		6-51(01), 6-52(01) : Figure is changed, and explanation is added.	
		6-53(01) ~ 6-56(01) : Contents are moved from previous page.	
03	-	TOC-1(02), TOC-2(03), TOC-3(01), TOC-4(02) : Page Number of Table of Contents are changed. Some headings and Page No. are modified.	Feb. 4, 2006
		Safety Summary-12(01) : Caution Plates are changed.	
		1-5(01) : Figure 1-2 is changed.	
		4-17(01) ~ 4-19(01) : Figures are changed.	
		4-31(01) : Figure 4-56 is changed.	
		4-33(02) : Figure and CAUTION statement are changed.	
		4-34(02) ~ 4-36(02) : Figures are changed.	
		4-51(02) : Add the cleaning items, and correct the misentry.	

Rev. Table

Rev. for Manual	Machine Rev.	Page No. (Contents)	Date
03	-	4-55(02) : Figure 4-110 is changed, and misentries are corrected.	Feb. 4, 2006
		4-56(02), 4-57(02) : Misentries are corrected.	
		4-58(02), 4-59(02) : All contents of "Cleaning the paper guide of the Fuser Unit" are added.	
		4-60(02), 4-61(02) : All contents of "Cleaning the paper guide of the Discharger Unit" are added.	
		4-62(01) ~ 4-64(01) : Contents are moved from previous page.	
04	-	TOC-1(03), TOC-2(04), TOC-3(02), TOC-4(03): Some page number are modified.	Mar. 22, 2006
		Safety Summary-3(02), Safety Summary-4(02) : Some caution statements are added.	
		SafetySummary-7(01) : All contents are added.	
		SafetySummary-8(01) ~ SafetySummary-13(01) : Contents are moved from previous page.	
		SafetySummary-14(01): Page is added.	
		1-9(01) : Caution statement is added.	
		2-6(01) : NOTE statement is added.	
		2-7(02) : Fugire 2-5 is changed.	
		2-10(01) : Network name is changed.	
		2-14(03) : "Exit Jam Recovery" is deleted. "LPD Queuing" is modified.	
		2-16(03) : "Paper Size" is modified.	
		2-17(03) : "Paper Color" is modified.	
		2-18(02) : "Exit Jam Recovery" is deleted.	
		2-19(02) : NOTE Statement is added.	
		2-20(03) : Network name is changed. "Exit Jam Recovery" is added.	
		2-21(03) : "Auto Online", "Auto Backup Time" and "Output Cascade" are added.	
		2-22(03) : Contents are moved from previous page.	
		2-23(03) : Network name is cahnged. "Exit Jam Recovery", "Auto Online", "Auto Backup Time" and "Output Cascade" are added. "Note 8" is added.	
		2-24(02) ~ 2-26(02) : Contents are moved from previous page.	
		3-3(03) : "Letter Tab Stock " and "A4 Tab Stock" are added.	
		3-6(03) : Custom color number is changed from 16 to 80.	
		3-14(03) : Contents are modified.	

Rev. Table

Rev. for Manual	Machine Rev.	Page No. (Contents)	Date
04	-	3-15(03) : All contents are added.	Mar. 22, 2006
		3-16(03) : Figure 3-13 is changed.	
		3-17(03) : Figure 3-15, 3-16 are changed.	
		3-18(03) ~ 3-31(01) : Contents are moved from previous page.	
		3-32(01) : Page is added.	
		5-8(01) : Some statements are added.	
		5-9(01) : Contents are moved from previous page. Table Number is changed.	
		5-10(01) : Contents are moved from previous page. Corective action of "Insufficient Disk Space" is modified.	
		5-24(01) : CAUTION Statement is added.	
		6-15(03) : Figure 6-12 is changed. Network name is changed.	
		6-17(03) : Figure 6-14 is changed.	
		6-24(03) : Figure 6-19 is changed. Custom color number is changed from 16 to 80.	
		6-28(03) : Contents are modified.	
		6-29(03) : "LPD Banner Page" is modified.	
		6-30(03) : Figure 6-25 is modified. Contents of each option are modified.	
		6-31(03) : Contents of each option are modified. "Paper Color", "Rotation", "Reverse Order" and "Job Partial Page Print" are added.	
		6-33(03) : Figure 6-27 is changed. "Paper Color" is deleted.	
		6-44(03) : Figure 6-38 is changed. Contents of each option are modified. "Auto Online" and "Output Cascade - ..." are added.	
		6-45(03) : "Use Time Server" is modified.	
		6-48(02) : Figure 6-42 is changed. Network name is changed.	
		6-49(02) : "Host Name" and "DNS Server Address" are added.	
		6-50(02) ~ 6-52(02) : Figures are cahnged. Network name is changed.	
		6-56(01) ~ 6-59(01) : All contents are added.	
		6-60(01) : Blank page is added.	

Rev. Table

Rev. for Manual	Machine Rev.	Page No. (Contents)	Date
05	-	Cover sheet : "Reed and keep this manual" is added.	Sep. 21, 2006
		Back of cover sheet : "TRADEMARK" is added. "NOTICE TO USER" is modified.	
		TOC-2(05) ~ TOC-4(04) : Some headings and Page No. are modified.	
		1-4(01) : Transit Pass Unit Type 156 is added.	
		1-10(01) : Figure 1-9 is changed.	
		2-10(02) : "Usage - Click Charge Counter" is added.	
		2-14(04) : "Cover Insert Mode" is added.	
		2-16(04) : "Letter TAB LEF" and "A4 TAB LEF" are deleted.	
		2-18(03) : "Paper Output - Default Output" is modified. "Options - Cover Insert Mode" is added.	
		3-3(04) : "Letter Tab Stock" and "A4 Tab Stock" are deleted.	
		3-14(04) : Table 3-4 and NOTE statement are modified.	
		3-15(04) : "Loading Tab Stock Paper" is deleted.	
		3-16(04) : Figure3-15 and 3-16 are changed.	
		3-17(04) ~ 3-30(04) : Pages are shifted.	
		3-31, 3-32 : Pages are deleted.	
		4-24(01) : Figure4-40 and Figure4-41 are changed.	
		4-27(01) : Figure4-46 is changed.	
		4-29(01) : Figure4-51 is changed.	
		4-31(02) : Figure4-55 is changed.	
		4-42(02) : Figure4-83 is changed.	
		4-48(02) : Figure4-98 is changed.	
		4-51(03), 4-52(02) : All contents are added.	
		4-53(02) : Interval of "Discharger, Detach Corotoron" is modified.	
		4-54(02) ~ 4-66(01) : Contents are moved from previous page.	
		5-8(02) : Some notations are modified.	
		5-12(02) : Error code "E011" is added.	
		5-13(02) : Some contents are shifted.	
		5-14(02) : Error codes "E064", "E065" and "E067" are added.	
		5-15(02) : Some contents are shifted.	
		5-16(02) : Error Codes "E0B2" and "E0B3" are added.	
		5-17(02) : Error code "E0D0" is added.	
		5-18(02) ~ 5-23(02) : Some contents are shifted.	

Rev. Table

Rev. for Manual	Machine Rev.	Page No. (Contents)	Date
05	-	5-24(02) : Error codes “E1E0”, “E1E1”, “E1E2” and “E1E3” are added	Sep. 21, 2006
		6-8(03) : “Click Charge Counter” is added to “Usage”.	
		6-9(03), 6-11(03) : Figure and contents are modified for Post Device.	
		6-14(03) : Figure 6-11 and contents are modified.	
		6-31(04) : “Paper Output” is modified.	
		6-44(04) : Figure 6-38 is changed. “Cover Insert Mode” is added.	
06	-	Cover sheet : Title logo is changed.	May 31, 2007
		TOC-4(05) : Some page No. are modified.	
		Safety Summary-8 : ENERGY STAR [®] logo is added.	
		Safety Summary-9 ~ Safety Summary-14 : Contents are moved from previous page.	
		0-1(01) : Note is deleted.	
		1-3(01) : “Network”, “Network Protocol” and “I/O configurations” are modified.	
		1-9(02) : Page heading is changed.	
		2-14(05) : “Halftone Density” is deleted.	
		2-15(02) : “Halftone” and “PS Wait Timeout” are added.	
		2-18(04) : “Halftone” is modified. “PS Wait Timeout” is added.	
		2-19(03), 2-23(04) : “Buzzer Volume” is modified.	
		3-5(03) : Table title is added.	
		3-28(05) : Figure 3-37 is changed.	
		4-2(01) : Life expectancy of Developer Mix and Fine Filter, and print utilization are modified.	
		5-9 (02) : “AppleTalk busy” message is added.	
		6-4(02) : Figure6-2 is changed.	
		6-6(03) : Figure6-4 is changed.	
		6-9(04) : Figure6-6 is changed.	
		6-19(03) : “Job Timeout” is modified. “PS Wait Timeout” is added.	
		6-27(03) : Figure6-22 is changed.	
		6-28(04), 6-29(04) : Description and Figure 6-24 is modified.	
		6-31(04) : Note is added.	
		6-48(03) : Description and Figure 6-42 is modified.	
		6-50(03) : All contents are added.	
		6-51(03) ~ 6-54(02) : Contents are shifted from previous page.	

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Rev. for Manual	Machine Rev.	Page No. (Contents)	Date
06	-	6-55(02), 6-56(02) : Table 6-6 is modified.	May 31, 2007
		6-57(02) ~ 6-60(02) : Contents are shifted from previous page.	
		A-3 : Life expectancy of Developer Mix and Fine Filter, and print utilization are modified.	
07	-	TRADEMARK : TRADEMARK is changed.	Sep 14, 2007
		TOC-1(04), TOC-3(04), TOC-4(06) : Page Number of Table of Contents are changed.	
		SafetySummary-7(02) : “Declaration of Conformity for Safety/EMI” is modified.	
		1-3(02) : “Optional IPDS printer language” is added.	
		1-10(02) : “IPDS Internal Error” and “IPDS Database Error” is added.	
		1-11(00), 1-12(00) : Page is added.	
		2-11(03) : Figure 2-8 is changed.	
		2-16(05), 2-17(04), 2-18(05), 2-19(04)~2-22(04), 2-23(05), 2-24(03)~2-26(03) : Page number is changed for adding of “IPDS” into 2-16.	
		2-19(04) : Table 2-3 is changed.	
		2-25(03) : Table 2-5 is changed.	
		2-27(00), 2-28(00) : Page is added.	
		5-24(03) : Table 5-7 is changed.	
		5-25(00), 5-26(00) : “Precaution of IPDS” is added. Page is added.	
		6-6(04), “Site Map” is modified.	
		6-20(03)~6-23(03), 6-24(04), 6-25(03), 6-26(03), 6-27(04), 6-28(05), 6-29(05), 6-30(04), 6-31(05), 6-32(03), 6-33(04), 6-34(03)~6-43(03), 6-44(05), 6-45(04), 6-46(03), 6-47(02), 6-48(04), 6-49(03), 6-50(04)~6-53(04), 6-54(03)~6-60(03) : Page number is changed for adding of “IPDS” into 6-20~6-28.	
		6-29(05) : Figure 6-19 is changed.	
		6-36(03) : Figure 6-25 is changed.	
		6-38(03) : “General” is modified.	
		6-64(00) : Table 6-6 is changed.	
		6-61(00)~6-70(00) : Page is added.	
		Appendix C(00) : Appendix C is added.	
		Appendix D(00) : Appendix D is added.	
		Glossary-2(01) : “IPDS” is added.	

Rev. Table

Rev. for Manual	Machine Rev.	Page No. (Contents)	Date
08	-	Safety Summary-14(03) : One of caution label is deleted.	Dec. 4, 2007
		0-1(02) : “About This Manual” is modified.	
		2-10(03) : “Note 3” is added.	
		2-14(06) : “Faceup Always” is added.	
		2-19(05) : “Faceup Always” and “Note 5” are added.	
		6-14(04) : “Figure6-11” is modified. “Process Counter” and “Click Charge Counter” are modified.	
		6-25(04) : “Finisher Staple Count NACK Suppression” is deleted.	
		6-29(06) : “Wait Timeout” is modified.	
		6-60(04) : “AppleTalk Enabled” is modified.	

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Appendix C. Code Page for IPDS emulation

Appendix D. FGID for IPDS emulation


Glossary


SAFETY SUMMARY


General Safety Guidelines

Before operating the machine, read the following instructions carefully:

- Allow all the operating procedures provided in this manual.
- Pay special attention to and follow all the hazard warning on the machine and in the manual. Failure to do so can cause injury to yourself or damage to the machine.
- The hazard warnings which appear on the warning labels on the machine or in the manual have one of the following alert headings consisting of an alert symbol and a signal word, DANGER, WARNING, or CAUTION.

 **DANGER!** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING!** indicates a potentially hazardous situation which, if not avoided, can result in death or serious injury.

 **CAUTION!** indicates a hazardous situation which, if not avoided, will or can result in minor or moderate injury, or serious damage of product.



The alert symbol shown left precedes every signal word for hazard warnings, and appears in safety related descriptions in the manual.

The signal word 'NOTE' is used to present warnings which are not directly related to personal injury hazards.

- Do not perform any operation or action in any way other than as provided in this manual. When in doubt, call the designated field engineer.
- Keep in mind that the hazard warnings in this manual or on the machine cannot cover every possible case, as it is impossible to predict and evaluate all circumstances beforehand. Be alert and use your common sense.

SAFETY SUMMARY

Hazard Warning Statements

WARNING Statement

- “Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous laser radiation exposure.” on page Safety Summary-5
- “Connect the power plug only to a properly rated power outlet. Otherwise, a fire or shock hazard may result.” on page Safety Summary-9
- “Never use multi-plug adaptors to plug multiple power plugs into the same power source. Be sure to operate the printer on a sole-use receptacle. Multiple connectors can cause overheating and a fire could result.” on page Safety Summary-9
- “The printer must be connected to the grounding power outlet for safe and proper operation.” on page Safety Summary-9
- “Apparatet må kun tilkoples jordet stikkontakt.” on page Safety Summary-9
- “Apparaten skall anslutas till jordat uttag när den ansluts till ett nätverk.” on page Safety Summary-9
- “Für einen sicheren und ordnungsgemäßen Betrieb muß der Drucker an eine geerdete Steckdose angeschlossen werden.” on page Safety Summary-9
- “Do not throw the toner bottle into a fire because it may suddenly burn, causing a risk of fire or personal injury.” on page 4-6
- “Dispose the toner bottle as incombustible waste.” on page 4-6
- “Waste materials should be disposed of or incinerated under conditions which meet all federal, state and local environmental regulations. Since regulations may vary from one region to another, check with the agency that governs waste disposal in your area for proper procedures.” on page 4-8
- “Do not throw the developer bottle into a fire because it may suddenly burn, causing a risk of fire or personal injury.” on page 4-16
- “The Fuser Unit is very hot. Do not touch any parts of the Fuser Unit except those parts which are used to replace the Fuser Cleaning Web.” on page 4-17
- “The Fuser Unit is very hot. Do not touch any parts of the Fuser Unit except those parts which are used to remove the paper. It is better to use the Bamboo Tweezers to remove the paper. (The Bamboo Tweezers is an attached accessory.)” on page 4-35

CAUTION Statement

- “Never unplug or replug the printer while it is on.” on page Safety Summary-10
- “Do not place the printer near heaters or volatile, flammable, or combustible materials.” on page Safety Summary-11

SAFETY SUMMARY

- “Once the printer is powered off, wait at least 5 seconds to next power on.” on page 1-6
- “If the message “Open the Fuser cover, and check that there is no paper” is displayed on the OCP, open the Fuser cover and check the Fuser unit refer to Chapter 4.” on page 1-9
- “If the printer does not power on, power off the printer, wait at least 30 seconds, then power on the printer again.” on page 1-6
- “You must set the correct paper weight value. The incorrect paper weight value may cause paper jam.” on page 3-19
- “Depending on amount of paper, the Basket is very heavy. Take care not to hurt your back when lifting a heavy Basket.” on page 3-29
- “Toner is not harmful to the human body, but if some toner has come in contact with your skin or clothes, you should wash it immediately with cold water.” on page 4-3
- “The toner is not harmful to the human body. However, take care not to inhale or swallow it because you may feel sick.” on page 4-6
- “If the toner goes into your eyes, immediately rinse with running water. If affected eyes are not rinsed, it may become injured. If the skin or clothing is contacted, wash with soap and water” on page 4-6
- “Hold the developer bottle when you turn the cap so that the bottle is not turned together with the cap.” on page 4-10
- “Hold the developer bottle when you turn the cap so that the bottle is not turned together with the cap.” on page 4-13
- “Incorrect setting of the Developer Bottle cause damage to the Developer Unit. Make sure the setting of the Developer Bottle before go to next step.” on page 4-13
- “If the developer is spilled out on the floor, the floor becomes very slippery. This may result in a fall and/or injury. Clean up the spilled developer with a toner-safe vacuum cleaner.” on page 4-15
- “If the developer goes into your eyes, immediately rinse with running water. If affected eyes are not rinsed, it may become injured. If the skin or clothing is contacted, wash with soap and water” on page 4-15
- “Surface of the Photoconductor Drum (OPC Sheet) is very sensitive. Carefully remove a paper to avoid scratch the surface of the Photoconductor Drum.” on page 4-32
- “The paper in the Fuser Unit must be removed by step 8 to step 14 when the Fuser Jam is happened. If the paper remains in the Fuser Unit, paper is scorched, or it causes another paper jam, or it causes some mechanical damage.” on page 4-33
- “Incompletion of closing the Fuser Unit Cover and the Paper Guide cause damage to the Fuser Unit. Make sure the Fuser Unit Cover and the Paper Guide are completely closed.” on page 4-36
- “Power off the printer prior to cleaning.” on page 4-53

SAFETY SUMMARY

- “Do not use solvent on the printer. Using solvent may dissolve the plastic and paint of the printer.” on page 4-53
- “Do not use cleaning solutions to clean inside and around the printer. Use only a water-moistened cloth.” on page 4-53
- “For cleaning up toner or developer spillage, use a specially-designed toner-safe vacuum cleaner. If you use a regular vacuum cleaner, the drawn toner/developer powder may scatter in the air. If you inhale or your eyes come into contact with such powder, you may feel sick or injure your eyes. Further, the drawn toner/developer powder may render the vacuum cleaner defective when it enters the vacuum cleaner’s motor section.” on page 4-53
- “The Paper Height Sensor in the Tray is sensitive. Carefully cleaning a Tray to avoid a damage to the Paper Height Sensor.” on page 4-54
- “If the message “Open the Fuser cover, and check that there is no paper” is displayed with E31x Call for Service error, open the Fuser cover and check the Fuser unit refer to Chapter 4.” on page 5-24
- “Do not use paper that contains CaCO₃ as it can drastically reduce fuser life.” on page B-4
- “Adhesive that comes in contact with the printer may contaminate the photoconductor and the internal printer mechanism. To test label stock for adhesive exposure, press a sheet of plain paper against a sheet of label stock. The plain paper should not adhere to the label stock at all.” on page B-12

SAFETY SUMMARY

Laser Safety

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not emit hazardous laser radiation.

Since radiation emitted inside the printer is completely confined within the protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 1976. These regulations apply to laser products marketed in the United States. The label on the printer indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

This printer is classified as a Class 1 laser product both under EN60825 and the Code of Federal Regulations, 1040.10 of Title 21.

LOUKAN 1 LASERLAITE
CLASS 1 LASER APPARAT

Internal Laser Radiation

Maximum Radiation Power: 10mW x 4 diodes
Wave Length: 780nm



WARNING!

Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous laser radiation exposure.

SAFETY SUMMARY

Certifications

FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of 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 this user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. If this occurs, users are required to correct the interference at their own expense.

Use of shielded cables is required to comply with Class A limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment other than those specified in this user's guide.

You may find the following booklet prepared by the Federal Communications Commission helpful: *How to Identify and Resolve Radio - TV Interference Problems*. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

Canadian Certification

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.

VCCI Notice (Japan)

This is a class 1 product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, you may be required to take corrective actions.

SAFETY SUMMARY

Declaration of Conformity for Safety/EMI

The Printer, Finisher, High Capacity Feeder, and Container Stacker conform to the directives shown below. For further information or to request a copy of the Declaration of Conformity, contact your Distributor.

1. CE Marking Traceability information

Manufacturer:

Ricoh Printing Systems Ltd.
1060 Takeda Hitachinaka-city Ibaraki-Pref. 312-8502 Japan

Authorized representative:

RICOH EUROPE B.V.
Prof. W.H. Keesomlaan 1, 1183 DJ Amstelveen The Netherlands

Before July 19, 2007:

CE Declaration of Conformity
The Product complies with the requirements of the EMC Directive 89/336/EEC and its amending directives and the Low Voltage Directive 73/23/EEC and its amending directives.

After July 20, 2007:

CE Declaration of Conformity
The Product complies with the requirements of the EMC Directive 2004/108/EC and the Low Voltage Directive 2006/95/EC and its amending directives.

2. EMI European standard EN55022

This equipment has been tested and found to comply with the limits for a class A Information Technology Equipment in accordance with the European Standard EN55022.

These limits are designed to provide reasonable protection against unacceptable interference in either commercial or industrial environments. This equipment generates, uses, and can radiate radio signals and if it is not installed and used in accordance with the instructions detailed in this user's guide, it may cause unacceptable interference to radio communication installations and equipment. The operation of this equipment in a residential area is likely to cause unacceptable interference in which case you may be required to correct the source of the interference at your own expense.

Please be aware that changes and modifications made to the equipment without prior approval of the manufacturer could negate your permission to operate the equipment.

Declaration of Conformity for RoHS

The Printer, High Capacity Feeder, and Container Stacker conform to the directives and standards shown below. For further information or to request a copy of the Declaration of Conformity, contact your Distributor.

1. Restriction of Hazardous Substances (RoHS) Directive 2002/95/EC

SAFETY SUMMARY

International ENERGY STAR® Office Equipment Program

International ENERGY STAR® Office Equipment Program



The International ENERGY STAR® Office Equipment Program encourages energy conservation by promoting energy efficient computers and other office equipment.

The program backs the development and dissemination of products that feature energy saving functions.

It is an open program in which manufacturers participate voluntarily.

Targeted products are computers, monitors, printers, facsimiles, copiers, scanners, and multifunction devices. Energy Star standards and logos are internationally uniform.

SAFETY SUMMARY

When Installing and Relocating the Printer

Power Specifications

Rated Voltage	Rated Frequency	Rated Current
200/208/220/230/240V	50/60Hz	21A
380/400/415V	50/60Hz	21A

Power Cords



WARNING!

Connect the power plug only to a properly rated power outlet. Otherwise, a fire or shock hazard may result.

Never use multi-plug adaptors to plug multiple power plugs into the same power source. Be sure to operate the printer on a sole-use receptacle. Multiple connectors can cause overheating and a fire could result.

Ensure that the plug connection is free of dust. In a damp environment, a contaminated connector can draw a non-negligible amount of current that can generate heat and eventually cause a fire over an extended period of time.

To prevent the risk of electric shocks and personal injury, fire, and printer damage:

- Always use the power cord provided with your printer. When an extension power cord is required, always use a properly rated cord.

If the power cord is not provided, use the following types of power cords:

- For North America:
4 wires, Type SJT 4x12 AWG (4x4.0 mm²) or thicker
Rated min. 300V/25A (with grounding plug).
- For Europe
5 wires, min. 5x4.0 mm²
Harmonized (<HAR>), Rated min. 300V/25A (with grounding plug).



WARNING!

The printer must be connected to the grounding power outlet for safe and proper operation.

Apparatet må kun tilkoples jordet stikkontakt.

Apparaten skall anslutas till jordat uttag när den ansluts till ett nätverk.

Für einen sicheren und ordnungsgemäßen Betrieb muß der Drucker an eine geerdete Steckdose angeschlossen werden.

SAFETY SUMMARY

- Do not attempt to rework, pull, bend, chafe, or otherwise damage the power cord. Do not place a heavy object on the cord.
- Never touch a power cord with wet hands.
- If your printer produces smoke, excessive heat, unusual noises or odors, or if any liquid is spilled into the printer, immediately switch off and unplug the printer.
- If the power cord is broken or insulated wires are exposed, be sure to get them replaced. (Do not use the damaged cord.)



CAUTION!

Never unplug or replug the printer while it is on.

- When unplugging the printer, grasp the plug instead of the cord.
- Be sure to switch off and unplug the printer before accessing its interior for cleaning or maintenance.
- When the printer is not used over an extended period of time, switch it off and unplug it.
- Once a month, unplug the printer and check that:
 - ☐ the power cord is plugged firmly into a receptacle.
 - ☐ the power cord is not cracked or frayed.
 - ☐ the plug is not excessively heated, rusted, or bent.
 - ☐ the plug and receptacle are free of dust.

NOTE:

If you notice any unusual conditions, contact your service representative.

SAFETY SUMMARY

Positioning the Printer Safely

To prevent the risk of electric shocks and personal injury, fire, and printer damage:

- Switch off the printer before connecting the interface cable or optional accessory.



CAUTION!

Do not place the printer near heaters or volatile, flammable, or combustible materials.

- Place the printer on a level and sturdy surface that can withstand the printer's weight. If tilted, the printer may fall over and cause injuries.
- Do not place the printer in a hot, humid, dusty, or poorly ventilated environment.
- When moving the printer, be sure to unplug the power cord from the outlet. If the printer is moved with the power cord connected, it can cause damage to the cord.
- When moving the printer, do not tilt it more than 10 degrees. If tilted excessively, the printer may fall over and cause injuries.
- If you need to move the printer over a long distance, consult your Technical Representative.

Environmental Limit

- The printer is capable of operating normally within the following recommended environmental limits:
 - Temperature range: 60°-89°F (16°-32°C).
 - Humidity range: 20-80% RH (no condensation).

NOTE:

Sudden temperature fluctuations can affect print quality. Rapid heating of a cold room can cause condensation inside the printer, directly interfering with image transfer.

- Do not expose the printer to direct sunlight, or the printer's performance may decline.

SAFETY SUMMARY

Operating Precautions

- Take care not to allow ties, sleeves, shirts, or long hair to be caught in the printer while operating.
- Be careful not to touch the hazardous parts near the caution labels.
- Be sure to avoid accidentally powering on the printer or pressing switches on the operator's panel while operating the printer.
- Never touch the high voltage portions of the printer, where caution labels are attached, when the printer is on. It may cause personal injuries if accidentally touched.
- Make sure that the printer paper complies with the supplies specifications. Printing on paper which does not comply with the specifications may result in paper jams and print quality degradation.
- Properly load the paper into the hopper to prevent paper skew and paper jams.
- It is absolutely necessary to follow the procedures and instructions described in this manual in order to optimize the printer's performance and to assure its safe operation.

SAFETY SUMMARY

SAFETY PRECAUTIONS

- Always keep the area around the printer tidy. Use the printer under the proper lighting (500-1,000 lux.). Keep sufficient space around the printer so the hoppers can be pulled forward. Space required in the vicinity of the printer is as follows:
 - Front side: 1 meters
 - Left, right and rear side: 1 meter
- Do not place anything on the printer.
- Do not open any covers during printing operation. It may cause personal injuries if moving elements or electrical parts are accidentally touched.
- Be particularly careful when working in the fuser unit area. Do not touch the inside of the fuser unit. The fuser unit becomes very hot (approx. 374°F [190°C]) and it may cause personal injuries if accidentally touched.
- Toner and developer are comprised of powdery particles. Avoid inhaling toner or developer when it accidentally spills and circulates. If it spills on the floor, immediately clean it with water-damped cloth. Do not leave it on the floor. It may cause accidents if stepped on as they are slippery beads of metal.
- Limit your operations to those described in this manual. Contact the field engineer or service technician for further operations which are not explained in this manual.
- This equipment generates ozone. Long-term exposure should be limited to 0.1 ppm calculated as an 8 hr. time weighted average concentration. Provide proper ventilation. Avoid installing the unit in a small room (smaller than 27cubic meter). If installing in a space smaller than 27cubic meter, frequent ventilation is necessary

About This Manual

This manual provides easy access to the information you need to operate the 156PPM (Pages Per Minute) laser printer.

To find out about a specific topic, refer to:

- **SAFETY SUMMARY** – For safety information and printer characteristics, including environmental and electrical requirements.
- Chapter 1: **Printer Overview** – For printer components and features.
- Chapter 2: **Operator Control Panel** – To access and use the liquid crystal display (LCD) window and the menus screens.
- Chapter 3: **Paper Handling** – For media recommendations and paper handling procedures.
- Chapter 4: **Care and Maintenance** – For detailed instructions on replacing consumables, clearing paper jams, and cleaning and maintaining the printer.
- Chapter 5: **Troubleshooting** – For information on printing problems and printer error and warning messages.
- Chapter 6: **Web Utilities** – For information on accessing the printer via the Internet or your company's Intranet.
- Appendix A: **Specifications** – For printer specifications.
- Appendix B: **Paper Specifications** – For media specifications and printing guidelines.
- Appendix C: **Code Page for IPDS emulation** – For IPDS Option.
- Appendix D: **FGID for IPDS emulation** – For IPDS Option.
- **Glossary** – For definitions of terms and acronyms.

Audience

This manual is written for those persons responsible for operating the printer. A basic understanding of computer equipment and its operations is required.

Manual Conventions

The following conventions are used in this manual:

- **Bold** and *Italics* are used sparingly for emphasis.
- Information you enter: ***Looks Like This.***
- Key Names (or Labels): *Look Like This.*
- System messages: Look Like This.
- Variable user information: *Looks Like This.*

Pay particular attention to Notes, Cautions, and Warnings. These alert you to critical information, as follows:

NOTE:

Provides important additional information.



CAUTION!

Alerts you to an operating procedure, practice, or condition that, if not strictly observed, might result in damage to the equipment.



WARNING!

Alerts you to an operating procedure, practice, or condition that, if not strictly observed, can result in safety hazards to personnel, severe injury, or loss of life.

For More Information

Refer to the following related documents for more details about your printer.

- *Installation Guide*
- *Engine Maintenance Manual*
- *Controller Maintenance Manual*
- *Parts Catalog*

Chapter 1

Printer Overview

What This Chapter Provides

This chapter describes the parts and functions of the printer.

- [Printer Features](#)
- [External View of the Printer](#)
- [Internal View of the Printer](#)
- [Powering On the Printer](#)
- [Powering Off the Printer](#)
- [Space Required for Installation](#)

Printer Features

The printer is a high-speed, heavy duty laser printer for a 1.5M page/month printing environment. It incorporates a wide variety of features:

- High-Speed and High-Quality Printing.
 - Print speed is up to 156 pages per minute (ppm), A4/Letter/Legal (Simplex).
 - The printing output is at a resolution of 600 dots per inch (dpi), assuring razor-sharp graphic and text output, even at very small point sizes.
- Flexible Paper Source and Delivery.

Paper Source:

 - Standard – One 2,500-sheet and one 1,000-sheet universal paper trays.
 - Option – High Capacity Feeder with 3,000 to 12,000-sheet capacity.

Paper Delivery:

 - Standard – Container Stacker with 2,000 to 4,000-sheet capacity and stacking capability.
 - Option – Additional Container Stacker with 2,000 to 4,000-sheet capacity and stacking capability.
- Multiple Original Printing (MOP) – for printing of multiple collated document sets without multiple file transfers. Processes PCL and PostScript jobs once, stores the images on disk, and prints each set from disk (after the first set).
- Virtual Printer Technology (VPT) – allows a single printer to offer print services, or *virtual printers*, each of which is configured by the Network Administrator.
- Web Utilities – for remote access to the printer through the Internet or your company's Intranet.
- Ergonomic operation.
 - The easy-to-read display clearly shows the operational status of the printer.

-
- High-volume printing.
 - Two standard paper trays with approximately 3,500-sheet capacity total.
 - Optional High Capacity Feeder (HCF) adds up to 12,000 additional sheets.
 - Together they allow continuous printing of up to 15,500 sheets.
 - Supports a wide-range of media types (plain, bond, letterhead, special application, recycled, labels) and sizes. See “Paper” on page 3-2 for more information.
 - Printer Language Support.
 - PCL5e and PCL XL printer language.
 - PostScript Level III (Adobe) printer language.
 - Optional IPDS printer language.(S/N Q4960440020~)
 - PDF and TIFF files printing.

NOTE:

PDF Files printing is only supported for PDF Version 1.3.

- Network.
 - Ethernet 10/100/1000 Base-T with onboard network
- Network Protocol.
 - TCP/IP and AppleTalk with onboard network.
- Easy installation of additional fonts and macros using the PCL Startup File.

I/O Configurations

- Ethernet 10/100/1000 Base-T with onboard network.

Operator Control Panel

The Operator Control Panel (OCP) is your physical interface to the printer's features and functions. From the control panel, you can monitor the printer's operating status and configure the specific printer functions.

See Chapter 2 for detailed information about the OCP.

External View of the Printer

The following illustration shows the printer with optional Container Stacker, optional High Capacity Feeders, optional Finisher Transfer Unit and optional Attention Light are installed.

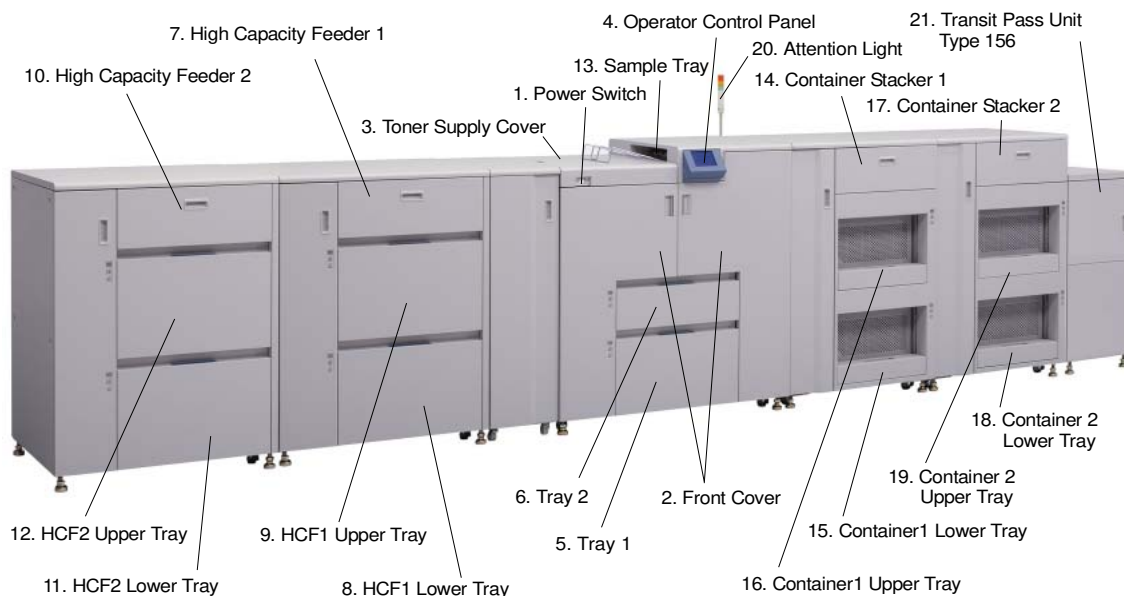


Figure 1-1. External View of the Printer

Table 1-1. External View of the Printer

Key	Component	Description
1	Power Switch	Press to turn the printer on and off.
2	Front Cover	Open to replace units, clear paper jams, or clean the printer.
3	Toner Supply Cover	Open to replenish the toner supply.
4	Operator Control Panel (OCP)	Displays printer status and menu information.
5	Tray 1	Holds up to 2,500 sheets of paper.
6	Tray 2	Holds up to 1,000 sheets of paper.
7	High Capacity Feeder 1	Two 3,000-sheet input trays.
8	HCF1 Lower Tray	Holds up to 3,000 sheets of paper.
9	HCF1 Upper Tray	Holds up to 3,000 sheets of paper.
10	High Capacity Feeder 2	Two 3,000-sheet input trays.
11	HCF2 Lower Tray	Holds up to 3,000 sheets of paper.
12	HCF2 Upper Tray	Holds up to 3,000 sheets of paper.
13	Sample Tray	100-sheet output tray
14	Container Stacker 1	Two 2,000-sheet output trays
15	Container1 Lower Tray	Stacks up to 2,000 sheets of paper.
16	Container1 Upper Tray	Stacks up to 2,000 sheets of paper.
17	Container Stacker 2	Two 2,000-sheet output trays
18	Container2 Lower Tray	Stacks up to 2,000 sheets of paper.
19	Container2 Upper Tray	Stacks up to 2,000 sheets of paper.
20	Attention Light	Indicates error, warning and printer ready status.
21	Transit Pass Unit Type 156	Paper transport unit for Post Device.

Internal View of the Printer

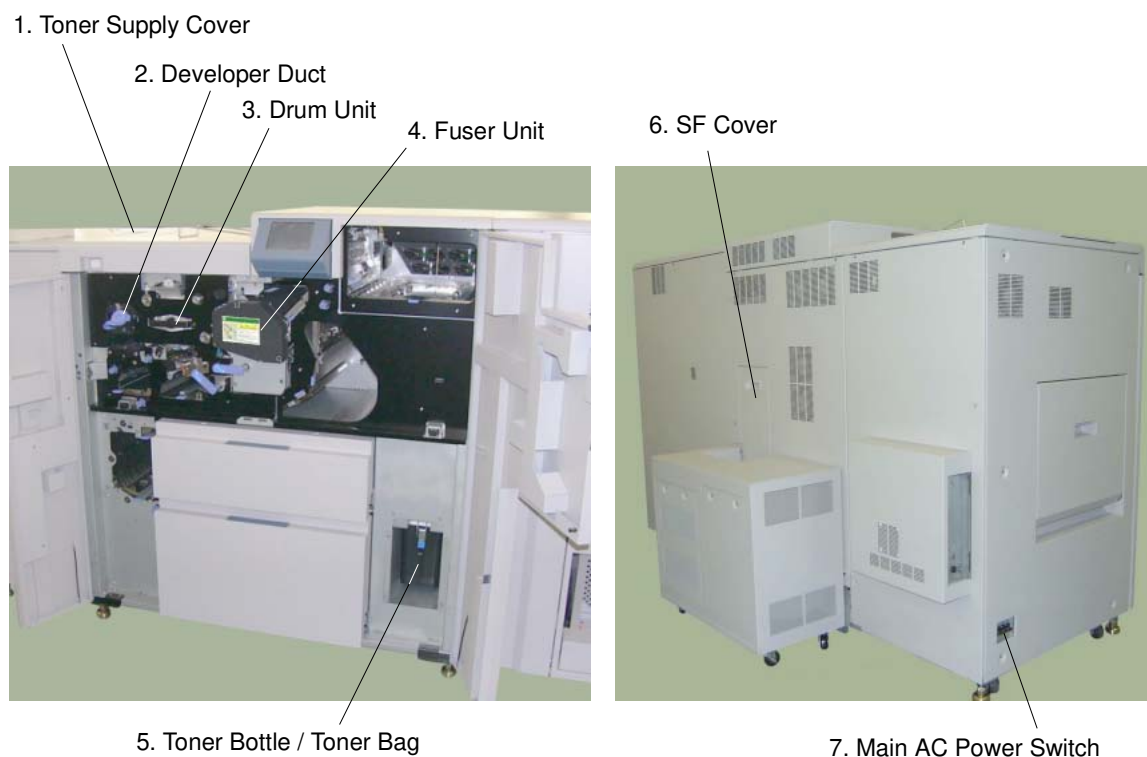


Figure 1-2. Internal View of the Printer

Table 1-2. Internal View of the Printer

Key	Component	Description
1	Toner Supply Cover	Open this cover when supplying the new toner.
2	Developer Duct	Mount the developer bottle onto the developer duct to replace consumed developer
3	Drum Unit	OPC drum.
4	Fuser Unit	Fuses the toner on the paper.
5	Toner Bottle/Toner Bag	Collect the waste toner.
6	SF Cover	Open this cover when replacing the Fine Filter.
7	Main AC Power Switch	Turn the printer main AC power on and off

Powering On the Printer

The printer has two power switches, the Main AC Power Switch and the Power Switch. The location of switches are shown below. Both switches are marked “I” for power on.

Main AC Power Switch



Power Switch



Figure 1-3. Powering On the Printer

When the printer is powered on, the printer go through a power-up sequence that takes approximately 5 minutes. During the power-up sequence, the printer runs a series of internal tests.



CAUTION!

*Once the printer is powered off, wait at least 5 seconds to next power on.
If the printer does not power on, power off the printer, wait at least 30
seconds, then power on the printer again.*

Powering Off the Printer

The printer should only be powered off when it is in a “Ready” state; that is, there are no jobs printing or processing. The following OCP displays indicate normal conditions. In these conditions, wait until printing is complete and the printer is Ready, then switch off the Power Switch.

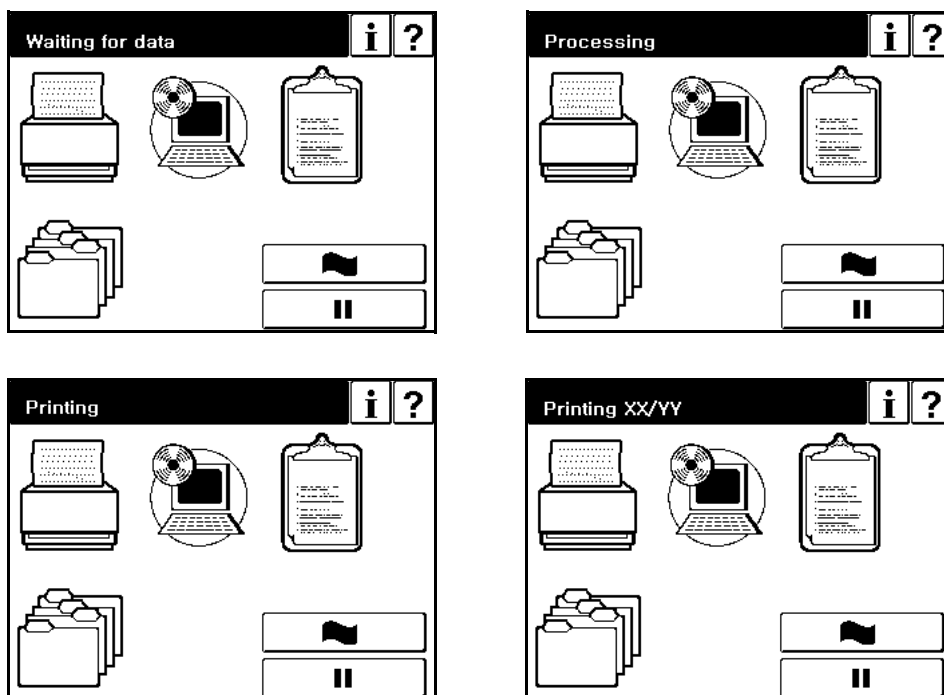


Figure 1-4. Normal Conditions

If the printer status is Pause/Offline, touch the “▶” button to return printer to a Ready status before powering off.

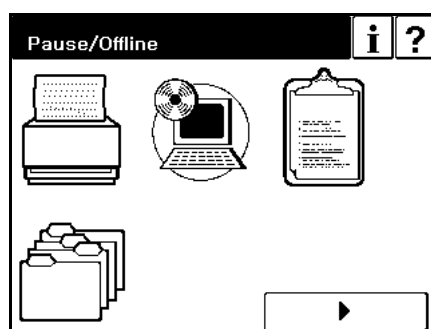


Figure 1-5. Pause/Offline

Clearing Error Conditions

OCP Alternates between Ready and Processing

1. Cancel the print job(s). For detail of canceling print job,

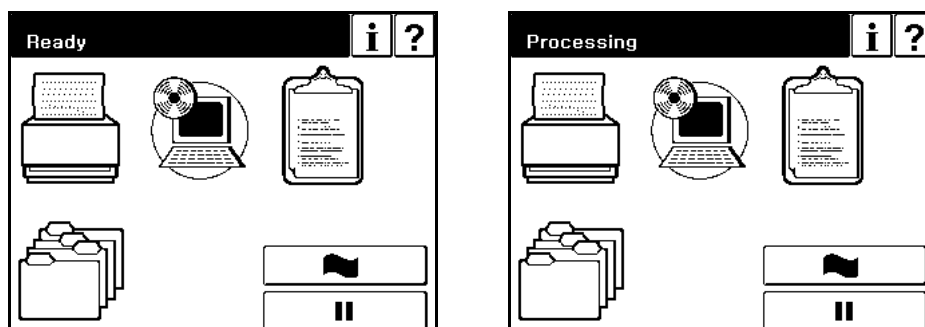


Figure 1-6. OCP Alternates between Ready and Processing

E0XX, E1XX Error

1. Correct the error and touch the “▶” button on the OCP display.
2. Wait until printing is complete and the printer returns to Ready, then switch off the main power.

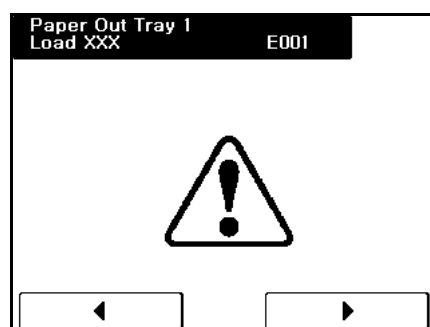


Figure 1-7. E0XX, E1XX Error

Call for Service Error (E2XX, E3XX, E4XX, EC#XX)

1. Touch the “▶” button on the OCP display.
2. Wait until printing is complete and the printer returns to Ready.

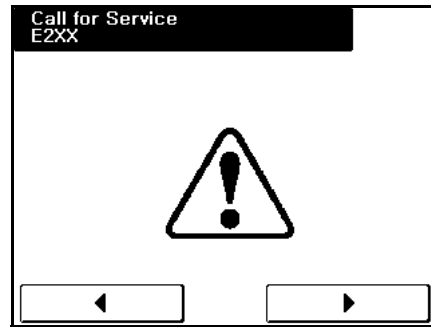


Figure 1-8. Call for Service Error



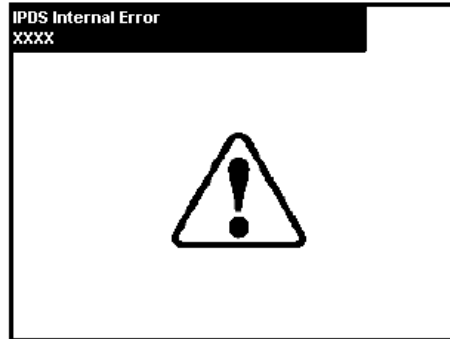
CAUTION!

If the message “Open the Fuser cover, and check that there is no paper” is displayed on the OCP, open the Fuser cover and check the Fuser unit refer to Chapter 4.

3. If the Call for Service error persists, cancel the print job(s), power off the printer, and contact your authorized service technician.

IPDS Internal Error

1. Power off and on the printer.



(Note:XXXX=100~999A)

Figure 1-9. IPDS Internal Error

2. If the IPDS Internal Error persists, power off the printer, and contact your authorized service technician.

IPDS Database Error

1. Power off and on the printer.
2. Excute "Printer > IPDS > Reset IPDS Fonts".



Figure 1-10. IPDS Database Error

3. If the IPDS Database Error persists, power off the printer, and contact your authorized service technician.

Space Required for Installation

Install the printer in a well-ventilated place and keep around the printer as shown below for safe and effective operation.

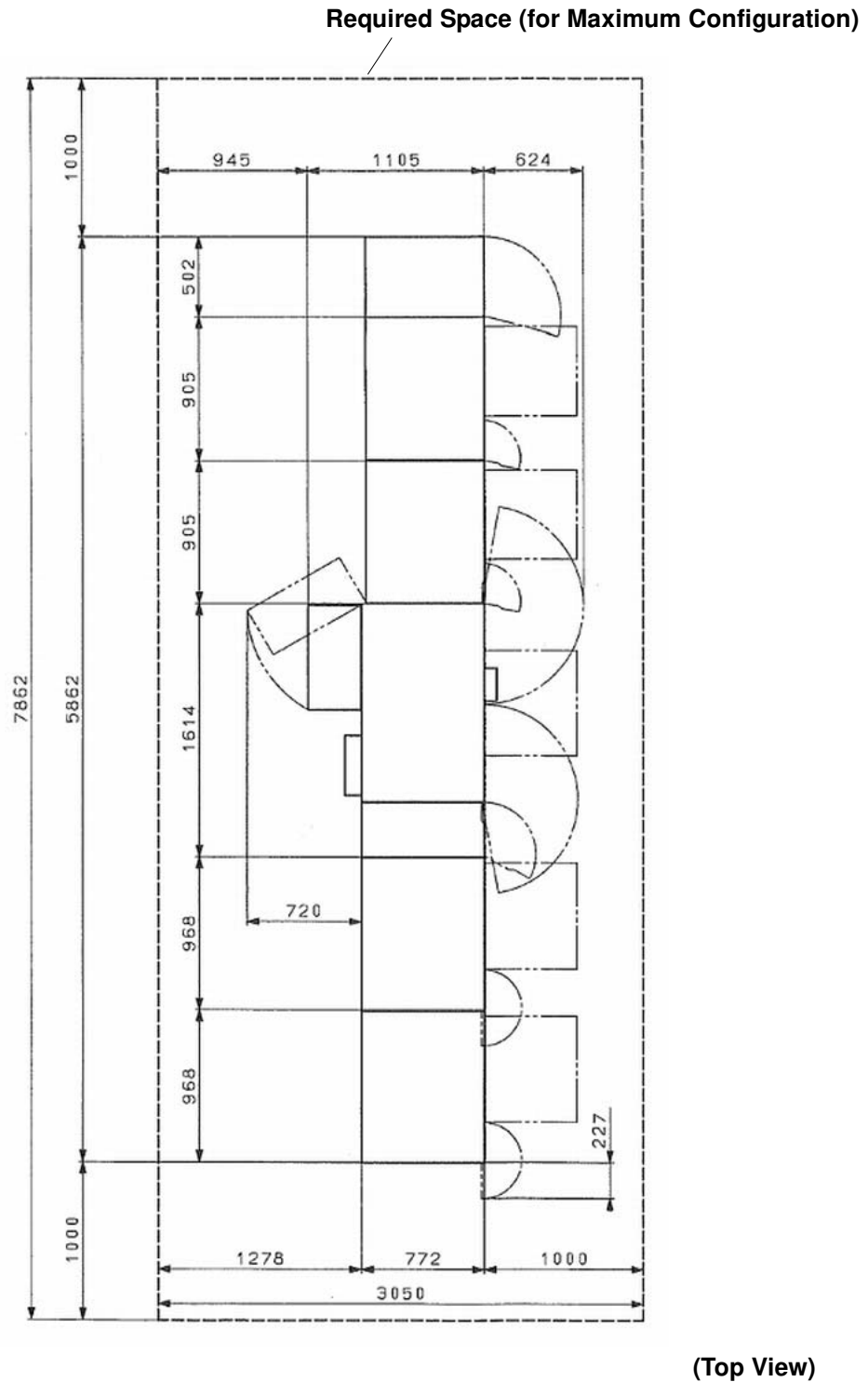


Figure 1-11. Space Required for Installation

Blank

Chapter 2

Control Panels

What This Chapter Provides

This chapter contains information on the following topics.

- [Description of Control Panels](#)
- [OCP Menu Icons and Buttons](#)
- [Using the OCP Menus](#)
- [OCP Menu Structure](#)
- [Sub Panel](#)

Description of Control Panels

The Operator Control Panel (OCP) is a touch panel display that you use to set up print options and monitor job and printer status. It is also used by the Network Administrator to configure the printer and by the Service Technician to perform maintenance on the printer.

This printer also have sub panel equipped to each Input and Output Trays. Sub panel has some functions to each Input and Output Trays.












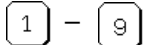

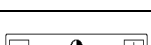


Figure 2-1. Operator Control Panel

OCP Menu Icons and Buttons

The menus are accessed via the touch panel. Each OCP menu consists of icons and buttons that you use to make selections. The icons and buttons are defined below. See [“Main Menu” on page 2-8](#) for more icons.

Table 2-1. OCP Menu Icons and Buttons

Icon or Button	Name	Function
	Help	Touch to display Help on the current screen.
	Information	From the Main Menu, displays information about the printer and consumables. From relevant screens, displays an illustration of the paper trays or finisher trays.
	Pause/Offline	Touch to pause the printer.
	Resume/Online	When the printer is offline, touch to return to Ready status.
	Return to Main Menu	Touch to cancel the current selection and return to the Main Menu.
	Previous Menu	Touch to cancel the current selection and return to the previous screen or menu.
	More Options	Touch to display additional options for the current selection.
	Enter or Accept	Confirm or Done. Touch to confirm your selection and return to the previous screen or menu.
	Sample	Touch to duplicate a current printing page and output to the sample tray.
	Clear Button	Touch to erase entire entry.
	Delete Button	Touch to erase last character entered.
	Ten Key	Use to enter numeric values.
	Brightness	Use to adjust backlight value of the OCP display.
	Contrast	Use to adjust the contrast level of the OCP display.
	Status Bar	Displays the current screen name and/or any system messages.

Using the OCP Menus

There are 4 types of OCP Menu displays.

- Option Button
- Ten Key Pad
- Change Button (+ / -)
- Change Button (Enable/Disable)

A brief description of each menu and how to use it follows.

Using the Option Button Menu

The image below is a sample of a menu with Option buttons. The status bar indicates the current setting. In this sample there is a More Options button indicating there are more options to choose from on the following page.

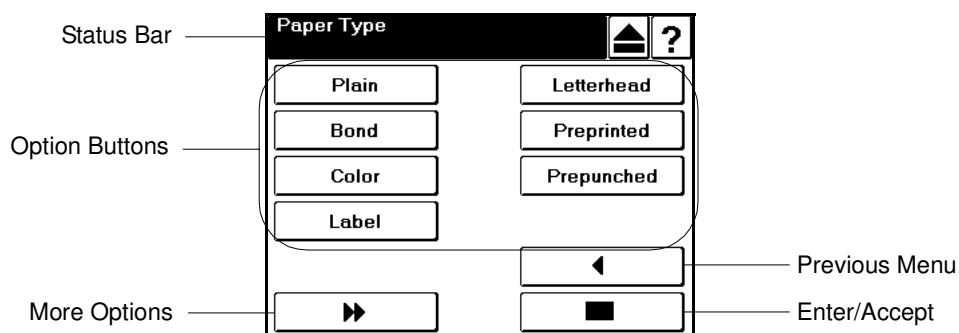


Figure 2-2. Option Button Menu

To use this menu,

1. Touch the Option button. The selection is highlighted.
2. Touch the Enter/Accept button to activate the selection.

NOTE:

The selection will be ignored if the Enter/Accept button is not touched, or if any other button is touched prior to touching Enter/Accept.

Using the Ten Key Pad Menu

The image below is a sample of a menu with a ten key pad. It is used to enter numeric values.

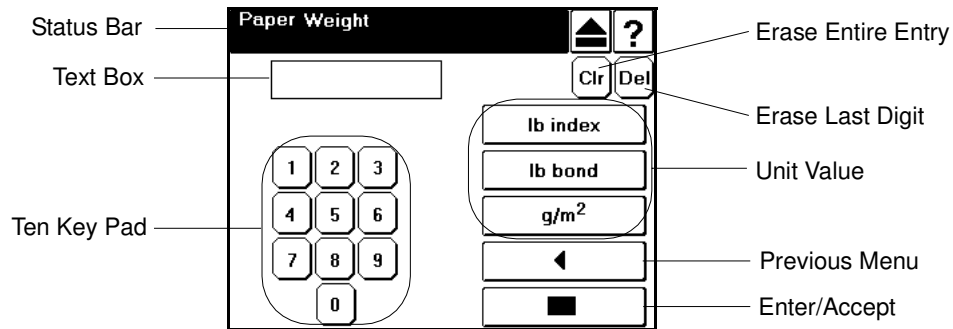


Figure 2-3. Ten Key Pad Menu

To enter a value,

1. Touch the appropriate numbers on the pad. The value appears in the Text Box.
2. Touch the desired Unit Value button (if applicable).
3. Touch the Enter/Accept button to activate the entry.

NOTE:

The entry will be ignored if the Enter/Accept button is not touched, or if the Previous Menu button is touched prior to touching Enter/Accept.

Using the + / - Change Button Menu

The image below is a sample of a menu with a + / - change button. It is used to increase and decrease the OCP brightness and contrast. The current value is displayed to the right of the icon.

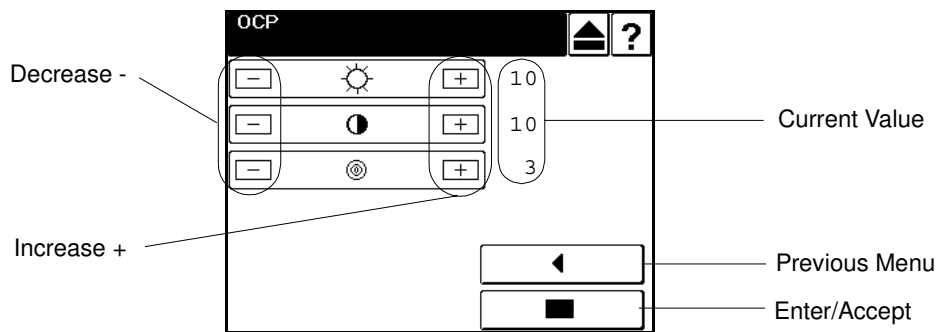


Figure 2-4. + / - Change Button Menu

To increase or decrease the value,

1. Touch the + or - to adjust brightness or contrast. The numeric value and the display will change immediately.

NOTE:

Brightness control is not displayed in the production model after April '06.

Touch the Enter/Accept button to activate setting.

NOTE:

The setting will be ignored if the Enter/Accept button is not touched, or if the Previous Menu button is touched prior to touching Enter/Accept.

Using the Enable/Disable Change Button Menu

The image below is a sample of a menu with an Enable/Disable toggle. It is used to turn an option on or off.

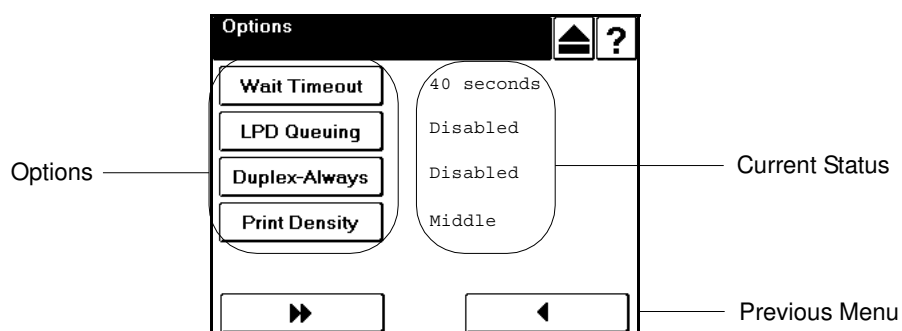


Figure 2-5. Enable/Disable Change Button Menu

1. Touch the Option Button to toggle between enable and disable. The current setting appears to the right.
2. When you are finished, touch the Previous Menu button.

NOTE:

The Enter/Accept button is not used for Enable/Disable options. The setting is activated immediately.

OCF Menu Structure

The OCF menu is structured as shown on the following pages. A top level menu screen is shown followed by a description of the options on the screen. A table that outlines the complete structure of the menu is also provided. Each box in the table represents an OCF display menu. Use this information to assist you in setting printer options.

Main Menu

The Main Menu screen is shown below. A description of the icons that make up the screen follows.

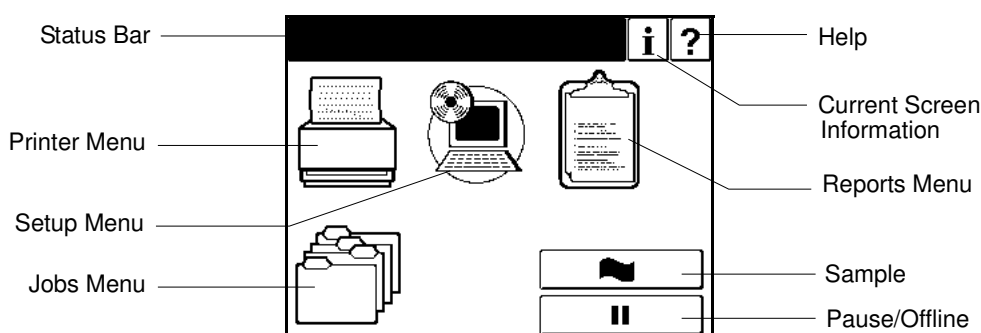


Figure 2-6. Main Menu

Printer Menu

Touch to display the Printer Menu.

Setup Menu

Touch to display the Setup Menu.

Reports Menu

Touch to display the Reports Menu.

Jobs Menu

Touch to display the Cancel Printing screen and view a list of all jobs.

For other buttons or icons, see [“Using the Option Button Menu”](#) on page 2-4.

Information Menu

When you touch the information icon on the Main Menu this screen is displayed. You can use it to determine the current settings and status of the options described below. See [Table 2-2 on page 2-10](#) for the complete Information Menu structure.

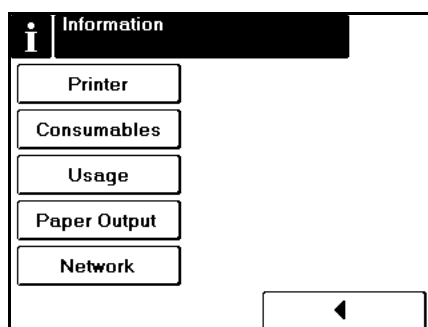


Figure 2-7. Information Menu

Printer

Touch to display information about the engine and controller software revision, error counts, and the current paper type and source settings.

Consumables

Displays the status of the consumables: Toner, Developer Mix., OPC Sheet, and OPC Sheet Counter.

Usage

Displays current information regarding print density, preventative maintenance, and page counts.

Paper Output

Displays current information regarding the Output Tray of the printer.

Network

Displays information such as MAC and IP Address, Gateway Address, Subnet Mask and HTTP Port.

Table 2-2. Information Menu Structure

Level 1	Level2	Level 3	Level 4
Information	Printer	1	Size, Status, Type, Weight
		2	Size, Status, Type, Weight
		HCF1 Lower (Note1)	Size, Status, Type, Weight
		HCF1 Upper (Note1)	Size, Status, Type, Weight
		HCF2 Lower (Note1)	Size, Status, Type, Weight
		HCF2 Upper (Note1)	Size, Status, Type, Weight
		Printer Graphic	
		Default Paper Source	
		Error Count of This Period	
		Controller Revision	
	Consumable	Toner	Normal/Low
		Developer Mix	(current/limit k)
		OPC Sheet	(current/limit k)
		OPC Sheet Counter	(current/limit k)
	Usage	Toner Coverage	(current %)
		PM Due In	(current k)
		Total Page Counter	(current k)
		Process Counter	(current k)
		Click Charge Counter (Note 3)	(current)
	Paper Output	1L	Paper Size, Basket Information, Basket Size
		1U	Paper Size, Basket Information, Basket Size
		2L (Note2)	Paper Size, Basket Information, Basket Size
		2U (Note2)	Paper Size, Basket Information, Basket Size
		Printer Graphic	
	Network	Network (AUX)	MAC Address
			IP Address
			Subnet Mask
			Gateway Address
			HTTP Port
		Network (NIC)	MAC Address
			IP Address
			Subnet Mask
			Gateway Address
			HTTP Port

Note 1: This display is only available when the HCF is installed.

Note 2: This display is only available when the additional stacker is installed.

Note 3: This display is only available when the “Click Charge Count Value” in the Service menu is “Show”.

Printer Menu

When you select Printer icon from the Main Menu, this screen is displayed. You use the Printer Menu to gain access to the printing options described below. See [Table 2-3 beginning on page 2-17](#) for the complete Printer Menu structure.

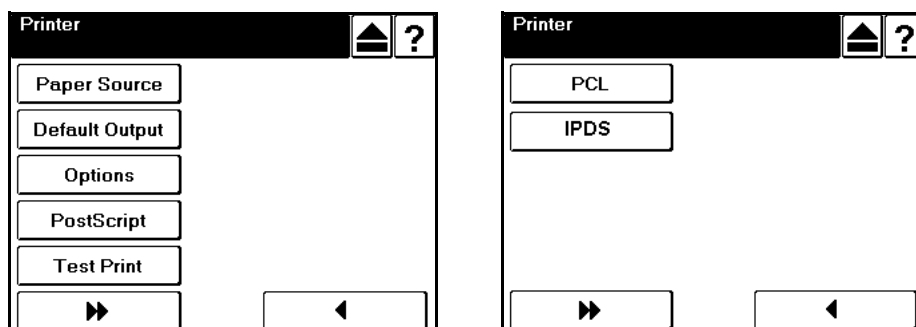


Figure 2-8. Printer Menu

Paper Source

- Default

Defines the default paper tray. Use this when the paper source is not designated by a host command. If a command from the host defines the paper source, the OCP setting is ignored. Also if the paper source is specified in the Virtual Printer of the Web, the OCP setting is ignored.

- Paper Size

When Paper Size is selected the paper size of the currently selected paper source is displayed. When the “Custom Size Switch” in the tray is set to “Standard”, paper size is automatically detected.

To use the OCP to set the paper size to something other than the standard sizes, set the Custom Size Switch in the tray to “Custom”, then select Paper Size on the OCP. See [“Paper Sizes, Paper Weights, Paper Types and Paper Color” on page 3-3](#) for more information.

- Paper Type

Defines the paper type to desired input tray. The paper type screen displays currently selected paper type, and press the option buttons to change to desired paper type. See [“Paper Sizes, Paper Weights, Paper Types and Paper Color” on page 3-3](#) for more information.

- Paper Color

Defines the paper color to desired input tray. The paper color screen displays currently selected paper color, and press the option buttons to change to desired paper color. See [“Paper Sizes, Paper Weights, Paper Types and Paper Color” on page 3-3](#) for more information.

- Paper Weight

Defines the paper weight to desired input tray. The paper weight screen displays currently defined paper weight, and redefine to desired paper weight by this screen. See [“Paper Sizes, Paper Weights, Paper Types and Paper Color” on page 3-3](#) for more information.

- HV Adjust

The print position can be adjusted vertically and horizontally using the HV Adjust option. The white arrow on the HV Adjust screen indicates paper feed direction. The adjustment can be set to millimeters or inches and the range is -6.3 to +6.3 millimeters (-0.25 to +0.25 inches) in increments of 0.1 millimeter (0.01 inch). Difference positions can be set for front and back side in duplex printing mode. See [“Setting the HV Adjust Values” on page 3-21](#) for more information.

- Table Adjust

Defines the table height setting of the each input tray. This option can be adjusted to five settings: +2, +1, Normal, -1 or -2. See [“Setting the Table Adjust” on page 3-23](#) for more information.

- Paper Moisture

Defines the Paper Moisture setting to each input tray. This option can be adjusted to four settings: Highest, Higher, Normal and Lower. See [“Setting the Paper Moisture” on page 3-25](#) for more information.

- HCF Tray Control

Defines the HCF tray control mode if the optional HCF is installed. This option can be set to the “Normal Pick Mode” or the “Prior Pick Mode”.

- Normal Pick Mode

The printer feeds a paper from the HCF tray after last paper is fed from the standard tray (Tray 1/2) when the tray is switched from the standard tray to the HCF tray.

In this mode, there is an interval between last paper fed from the standard tray and first paper fed from the HCF tray.

- Prior Pick Mode

When the tray is switched from the standard tray to the HCF tray, the printer starts to feed a paper from the HCF tray before feeding a paper from the standard tray if the data processing of the paper fed from the HCF has completed.

The paper fed from the HCF tray stops at the HCF exit, and is fed continuously after last paper fed from the standard tray.

The tray switching time at Prior Pick Mode is shorter than Normal Pick Mode.

However more papers may be wasted than Normal Pick Mode when paper jam or an error occurred.

Also there are some limitations when using this mode. See [“Printer Notice” on page 5-7](#) for detail.

Paper Output

- Default Output

Use this when the output tray is not designated by a host command. If a command from the host defines the output tray, the OCP setting is ignored.

- Stacking Level

Defines the Upper limit of the stacking level of each output tray. This option can be adjusted to three settings: 50%, 75% or 100%.

Options

- **Wait Timeout**

Defines the waiting period (in seconds) from reception of last data to the reception of next data. If data is not received within the defined period, the job is cancelled. A command from the host will override the OCP setting.
- **LPD Queuing**

Can be set to enable or disable. When set to disable, printer does not accept next job via LPR/LPD protocol until current job process is completed.
- **Duplex Always**

Can be set to enable or disable. When set to enable, the printer will always prints the job by duplex mode.
- **Print Density**

Print Density can be adjusted to five settings: Light, Semi-Light, Middle, Semi-Dark or Dark.
- **Auto Proof Sample**

This function provides the automatic proof sample printing instead of manually pressing the “Sample” button on the OCP. Print interval of the sample page can be set from 0 to 5,000 every 500 sheet (0, 500, 1,000, 1,500, ... 5,000). For example, If interval is set to “500”, then printer automatically duplicates the proof sample to the Sample Tray every 500 sheet during printing. If the interval is set to “0”, this function is disabled.
- **Cover Insert Mode**

Defines the mode of the Cover Inserter when it is installed. Set to “Cover Insert” when Cover Inserter is used. Set to “Bypass” when Cover Inserter is not used.
- **Faceup Always**

Can be set to enable or disable. When set to enable, the printer will always prints the job by Faceup regardless of definition in the job.

PostScript

- **Print Errors**

Can be set to enable or disable. When set to enable, the printer will prints error page when PostScript error is occurred.
- **Best Fit**

Can be set to enable or disable. When set to enable, the printer will prints the page image to fit the paper size.
- **Job Timeout**

Defines the time limit (in seconds) for processing of the PostScript job.

- Halftone

Selects the postscript halftone settings. Can be selected to three kind of density : Light, Medium or Dark, and two kind of ruling : 85lpi or 106lpi.

NOTE:

The Halftone menu is only displayed when the Halftone Selection in the Service menu is enabled.

- PS Wait Timeout

Defines the waiting period (in seconds) from reception of last data to the reception of next data in the postscript job. If data is not received within the defined period, postscript timeout error is happened.

Test Print

Use this button to prints the test pattern for checking the print quality or the print position. Following test patterns are available in this menu.

- Cross Pattern

This option prints the combination of Horizontal/Vertical/Diagonal lines for checking the print position. This pattern is printed by duplex.

- Raster Pattern

This option prints the 8 page of the raster pattern and 8 page of the blank pages (total 16 pages) for checking the print quality. This pattern is printed by simplex.

PCL

- Wide A4

Can be set to enable or disable. When set to enable, the printer changes the margin/printable area of A4 paper so that 80 10-pitch characters may be printed on a line.

- Requested Tray

Defines the printer behavior when requested tray is specified in jobs.

- ☐ Exclusively

Printer should print from the requested tray only.

- ☐ First

Printer should print from the requested tray first.

IPDS

■ Reset IPDS Fonts

Purge all IPDS captured fonts. This item is available only when IPDS is inactive.

NOTE:

*This item is intended for use only after the following error message:
IPDS Database Error*

■ Caching

Specifies whether or not to use caching for repeated overlays.

☐ Enabled(Default)

The printer uses caching, which provides better performance for jobs with repeated overlays, but uses more memory.

☐ Disabled

The printer does not use caching which requires less memory but provides less performance for jobs with repeated overlays.

NOTE:

Overlay caching is recommended for repeated overlays. Overlay caching does not improve performance with non-overlay IPDS data or overlays that are used only once or infrequently.

■ Font Capture

Sets Font Capture processing;

☐ Enabled(Default)

The printer saves downloaded font resources on its hard drive for use beyond power cycle. The IPDS host must provide “Activate Resource” command with the correct resource identifiers before downloading the font resource to be captured.

☐ Disabled

The printer stores downloaded font resources for the duration of one power cycle only.

Table 2-3. Printer Menu Structure

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Printer	Paper Source	Default (Note 1)	Auto Select		
			1		
			2		
			HCF1 Lower (Note2)		
			HCF1 Upper (Note2)		
			HCF2 Lower (Note2)		
			HCF2 Upper (Note2)		
		Paper Size (Note 1)	1	Folio SEF, Folio LEF, Super B SEF, Executive LEF, Letter SEF, A4 SEF, Legal SEF, Custom Size (Note 3)	Length: 7-18" (178-457.2mm) Width: 8-14" (203-355.6mm)
			2	Folio SEF, Folio LEF, Super B SEF, Executive LEF, Letter SEF, A4 SEF, Legal SEF, Custom Size (Note 3)	Length: 7-18" (178-457.2mm) Width: 8-14" (203-355.6mm)
			HCF1 Lower (Note2)	Folio SEF, Folio LEF, Super B SEF, Executive LEF, Letter SEF, A4 SEF, Legal SEF, Custom Size (Note 3)	Length: 7-18" (178-457.2mm) Width: 8-14" (203-355.6mm)
			HCF1 Upper (Note2)	Folio SEF, Folio LEF, Super B SEF, Executive LEF, Letter SEF, A4 SEF, Legal SEF, Custom Size (Note 3)	Length: 7-18" (178-457.2mm) Width: 8-14" (203-355.6mm)
			HCF2 Lower (Note2)	Folio SEF, Folio LEF, Super B SEF, Executive LEF, Letter SEF, A4 SEF, Legal SEF, Custom Size (Note 3)	Length: 7-18" (178-457.2mm) Width: 8-14" (203-355.6mm)
			HCF2 Upper (Note2)	Folio SEF, Folio LEF, Super B SEF, Executive LEF, Letter SEF, A4 SEF, Legal SEF, Custom Size (Note 3)	Length: 7-18" (178-457.2mm) Width: 8-14" (203-355.6mm)
		Paper Type (Note 1)	1	Plain, Bond, Color, Label, Letterhead, Preprinted, Prepunched, Recycled, Tracing Paper, Special, Other	
			2	Plain, Bond, Color, Label, Letterhead, Preprinted, Prepunched, Recycled, Tracing Paper, Special, Other	
			HCF1 Lower (Note2)	Plain, Bond, Color, Label, Letterhead, Preprinted, Prepunched, Recycled, Tracing Paper, Special, Other	
			HCF1 Upper (Note2)	Plain, Bond, Color, Label, Letterhead, Preprinted, Prepunched, Recycled, Tracing Paper, Special, Other	
			HCF2 Lower (Note2)	Plain, Bond, Color, Label, Letterhead, Preprinted, Prepunched, Recycled, Tracing Paper, Special, Other	
			HCF2 Upper (Note2)	Plain, Bond, Color, Label, Letterhead, Preprinted, Prepunched, Recycled, Tracing Paper, Special, Other	

Note 1: Commands from the Host override OCP settings.

Note 2: This menu is displayed only when the HCF is installed.

Note 3: This menu is available only when the Custom Size Switch in is set to "Custom".

Table 2-3. Printer Menu Structure - Continued

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Printer	Paper Source	Paper Color (Note 1)	1	White, Pink, Yellow, Buff, Goldenrod, Blue, Green, Custom	Color 1, Color 2, Color 3, Color 79, Color 80
			2	White, Pink, Yellow, Buff, Goldenrod, Blue, Green, Custom	Color 1, Color 2, Color 3, Color 79, Color 80
			HCF1 Lower (Note 2)	White, Pink, Yellow, Buff, Goldenrod, Blue, Green, Custom	Color 1, Color 2, Color 3, Color 79, Color 80
			HCF1 Upper (Note 2)	White, Pink, Yellow, Buff, Goldenrod, Blue, Green, Custom	Color 1, Color 2, Color 3, Color 79, Color 80
			HCF2 Lower (Note 2)	White, Pink, Yellow, Buff, Goldenrod, Blue, Green, Custom	Color 1, Color 2, Color 3, Color 79, Color 80
			HCF2 Upper (Note 2)	White, Pink, Yellow, Buff, Goldenrod, Blue, Green, Custom	Color 1, Color 2, Color 3, Color 79, Color 80
		Paper Weight (Note 1)	1	60-199gm ² (33-110 lb. index, 16-53 lb. bond)	
			2	60-199gm ² (33-110 lb. index, 16-53 lb. bond)	
			HCF1 Lower (Note 2)	60-199gm ² (33-110 lb. index, 16-53 lb. bond)	
			HCF1 Upper (Note 2)	60-199gm ² (33-110 lb. index, 16-53 lb. bond)	
			HCF2 Lower (Note 2)	60-199gm ² (33-110 lb. index, 16-53 lb. bond)	
			HCF2 Upper (Note 2)	60-199gm ² (33-110 lb. index, 16-53 lb. bond)	
		HV Adjust	Front	H/V Direction	-0.25" to +0.25" (-6.3 to +6.3mm)
			Back	H/V Direction	-0.25" to +0.25" (-6.3 to +6.3mm)
		Table Adjust	1:Thick	+2/+1/Normal/-1/-2	
			1:Thin	+2/+1/Normal/-1/-2	
			2:Thick	+2/+1/Normal/-1/-2	
			2:Thin	+2/+1/Normal/-1/-2	
			HCF1L:Thick (Note 2)	+2/+1/Normal/-1/-2	
			HCF1L:Thin (Note 2)	+2/+1/Normal/-1/-2	
			HCF1U:Thick (Note 2)	+2/+1/Normal/-1/-2	
			HCF1U:Thin (Note 2)	+2/+1/Normal/-1/-2	
			HCF2L:Thick (Note 2)	+2/+1/Normal/-1/-2	
			HCF2L:Thin (Note 2)	+2/+1/Normal/-1/-2	
			HCF2U:Thick (Note 2)	+2/+1/Normal/-1/-2	
			HCF2U:Thin (Note 2)	+2/+1/Normal/-1/-2	

Note 1: Commands from the Host override OCP settings.

Note 2: This menu is displayed only when the HCF is installed.

Table 2-3. Printer Menu Structure - Continued

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
Printer	Paper Source	Paper Moisture	1	Highest/Higher/ Normal/Lower		
			2	Highest/Higher/ Normal/Lower		
			HCF1 Lower (Note 2)	Highest/Higher/ Normal/Lower		
			HCF1 Upper (Note 2)	Highest/Higher/ Normal/Lower		
			HCF2 Lower (Note 2)	Highest/Higher/ Normal/Lower		
			HCF2 Upper (Note 2)	Highest/Higher/ Normal/Lower		
		HCF Tray Control (Note 2)	Normal Pick Mode			
			Prior Pick Mode			
	Paper Output	Default Output (Note 1)	Container 1 Lower			
			Container 1 Upper			
			Container 2 Lower (Note 1)			
			Container 2 Upper (Note 1)			
			Pass Through (Note 4)			
			Finishing (Note 4)			
		Stacking Level	1 Lower :Short	100%/75%/50%		
			1 Lower :Long	100%/75%/50%		
			1 Upper :Short	100%/75%/50%		
			1 Upper :Long	100%/75%/50%		
			2 Lower :Short (Note 1)	100%/75%/50%		
			2 Lower :Long (Note 1)	100%/75%/50%		
			2 Upper :Short (Note 1)	100%/75%/50%		
			2 Upper :Long (Note 1)	100%/75%/50%		
		Options	Wait Timeout	0-999 seconds		
			LPD Queuing	Enable/Disable		
			Duplex-Always	Enable/Disable		
			Print Density	Light/Semi-Light/Middle/ Semi-Dark/Dark		
	Auto Proof Sample		0, 500, 1,000, 1,500, 2,000, 2,500, 3,000, 3,500, 4,000, 4,500, 5,000			
	Cover Insert Mode (Note 4)		Cover Insert/Bypass			
	Faceup Always		Enable/Disable			
	PostScript	Print Errors	Enable/Disable			
		Best Fit	Enable/Disable			
		Job Timeout	0 second or 15-999 seconds			
		Halftone (Note 3)	Light/Medium/Dark		85lpi/106lpi	
PS Wait Timeout		0 second or 15-999 seconds				
Test Print	Cross Pattern	Select Paper Source	Select Paper Destination			
	Raster Pattern	Select Paper Source	Select Paper Destination			
PCL	Wide A4	Enable/Disable				
	Requested Tray	Exclusively/First				
IPDS (Note 5)	Reset IPDS Fonts	Reset IPDS Fonts				
	Caching	Enabled/Disabled				
	Font Capture	Enabled/Disabled				

Note 1: This menu is displayed only when the Additional Stacker is installed.

Note 2: This menu is displayed only when the HCF is installed.

Note 3: This menu is displayed only when the Halftone Selection in the Service menu is enabled.

Note 4: This menu is available only when the Transit Pass Unit Type 156 is installed.

Note 5: This menu is available only when IPDS option is installed.

Setup Menu

When you select Setup icon from the Main Menu, this screen is displayed. Use it to gain access to the Setup option screens that are described below. See [Table 2-4 on page 2-24](#) for the complete Setup Menu structure.

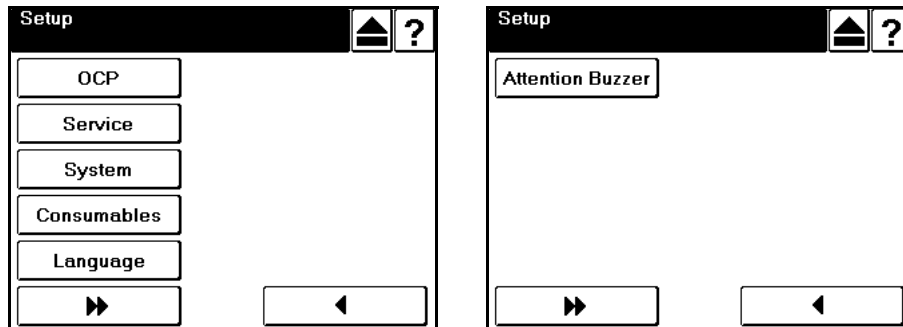


Figure 2-9. Setup Menu

OCP

- Brightness

Brightness of the OCP can be adjusted. The range is 1 to 16. The factory default is 10.

NOTE:

This option is not displayed in the production model after April '06.

- Contrast

Contrast of the OCP can be adjusted. The range is 1 to 16. The factory default is 10.

- Buzzer Volume

Buzzer Volume of the OCP can be adjusted. The range is 0 to 5. The factory default is 3. 0 is mute.

Service

The Service option is password protected and this option is used by Authorized Service Technician only.

System

The System option is password protected. Contact your System Administrator if you need access to these options.

- Software Log

Create software log

- Network

Defines the parameters of the network. The standard network (10/100/1000B-T) is displayed as “Network (AUX)”. If the Multi-protocol NIC option (10/100B-T) is installed, “Network (NIC)” is also displayed. Following parameters can be set to each networks.

- IP Address

Can be set desired IP Address. Factory default is 192.0.0.1.

- Subnet Mask

Can be set desired Subnet Mask. Factory default is 0.0.0.0.

- Gateway Address

Can be set desired Gateway Address. Factory default is 0.0.0.0.

- Boot Method

Can be set Boot Method to Static or DHCP. If the Multi-protocol NIC option is installed, can be set to Auto Select, DHCP, RARP or Static. Factory default is STATIC.

- HTTP Port

Can be set HTTP port to desired port number. Factory default is 80.

- Exit Jam Recovery

Can be set to enable or disable. When set to enable, the printer will reprint pages that were improperly printed due to a paper jam.

- Calendar

The following settings can be made.

- Time Zone - See the following table for options.

- Date - 0000/00/00 (Year/Month/Day)

- Time - Set printer clock

- Country Code

Select the appropriate country code used in international phone numbers. The default setting is 1.

- Energy Save Mode

Can be set to enable or disable.

- **Energy Save Time**

Defines the waiting time (in minutes) to enter the Energy Save Mode when Energy Save Mode is enabled.

- **Password**

Use to change the System password. The system password is used by your System Administrator and provides access to the system parameters.

- **Auto Online**

Can be set to enable or disable. When set to enable, printer automatically return from offline to online about 7 minutes elapsed after last OCP operation in offline state. When set to disable, printer never return to online until the “resume/online” button is pressed.

- **Public R/W**

Enable allows read/write when SNMP community name is Public.

- **Auto Backup Time**

Defines start time (o'clock) of auto backup. Valid value is 0 - 23.

- **Output Cascade**

- ☐ **Cascade Priority**

Defines a switching priority of container stacker when auto cascading.

- ☐ **Cascade on CS Open**

Defines the behavior when the open switch of container stacker is pressed during auto cascading. When set to “Stop”, printer stops printing. When set to “Continue”, printer switches the stacker and continue to print.

Consumables

Touch to display the user consumable options, which include replacing the developer mix, OPC Sheet and fuser web.

- Developer Mix

Select exhaust to empty old developer mix, then select Supply to replenish with new developer mix. The counter is automatically reset.

- OPC

- OPC Sheet

Select the Winding OPC Sheet to wind the OPC Sheet.

- Counter

Select the Counter to reset the winding count when replacing the OPC Sheet.

NOTE:

The OPC menu is only displayed when the OPC Mode in the Service menu is enabled.

- Fuser Web

Touch to reset the OCP message when replacing the Fuser Web.

Language

Touch to list the OCP display language options. (English, Deutsch, Français)

Attention Buzzer

Enable or disable the buzzer of the Attention Light if this option is installed.

- Buzzer: Yellow

Enable or disable the buzzer when the Yellow light is blinking.

- Buzzer: Red

Enable or disable the buzzer when the Red light is blinking.

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	
Setup	OCP	Brightness (Note 8)	1-16				
		Contrast	1-16				
		Buzzer Volume	0-5				
	Service (Note 1)						
	System	Input Password (Note 2)	Software Log				
			Network	Network (AUX)	IP Address	Static DHCP	
					Subnet Mask		
					Gateway Address		
					Boot Method		
					HTTP Port		
				Network (NIC) (Note 6)	IP Address	Auto Select DHCP RARP STATIC	
					Subnet Mask		
					Gateway Address		
					Boot Method		
					HTTP Port		
				Exit Jam Recovery	Enable/Disable		
			Calendar	Time Zone	GMT -12:00 to GMT +12:00		
				Date (Note 3)			
				Time			
				Country Code			
			Energy Save Mode	Enable/Disable			
			Energy Save time (Note 4)	15-230 minutes			
			Password	Input Password			
			Auto Online	Enable/Disable			
			Public R/W	Enable/Disable			
			Auto Backup Time	0-23 o'clock			
			Output Cascade	Cascade Priority	Lower to Upper / Upper to Lower		
				Cascade on CS Open	Stop / Continue		
			Consumable	Developer Mix	Exhaust		
	Supply						
	OPC (Note5)	Winding OPC Sheet					
		Counter					
Fuser Web							
	Language	English					
		Deutsch					
Français							
Attention Buzzer (Note7)	Buzzer:Yellow	Enable/Disable					
	Buzzer:Red	Enable/Disable					

Note 8: This option is not displayed in the production model after April '06.

Reports Menu

When you select Reports icon from the Main Menu, this screen is displayed. You use it to print the reports described below.

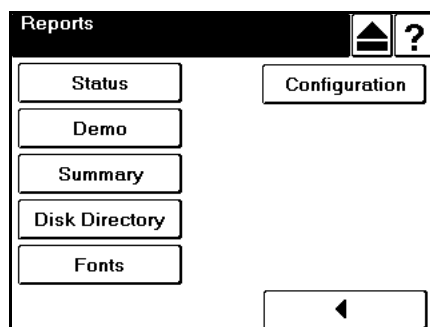


Figure 2-10. Reports Menu

Status

Touch to print a status report and return to the Main Menu. The status report shows the current configuration of the printer and printer usage information.

Demo

Touch to print a demo report and return to the Main Menu. The demo report shows the printer specifications such as speed, paper handling, resolution, etc.

Summary

Touch to print a summary report and return to the Main Menu. The summary report shows processor, connectivity, RAM and other miscellaneous information.

Disk Directory

Touch to print a disk directory report and return to the Main Menu.

Fonts

Touch to print the font lists of the printer.

Configuration

Touch to print the list of various configuration parameters.

Table 2-5. Reports Menu

Level 1	Level 2	Level3
Reports	Status	
	Demo	
	Summary	
	Disk Directory	
	Fonts	
	Configuration	
		PCL Fonts
		PostScript Fonts
		IPDS Fonts

Jobs Menu

When you select Jobs icon from the Main Menu, this screen is displayed. You use the Jobs Menu to canceling print jobs in the printer.

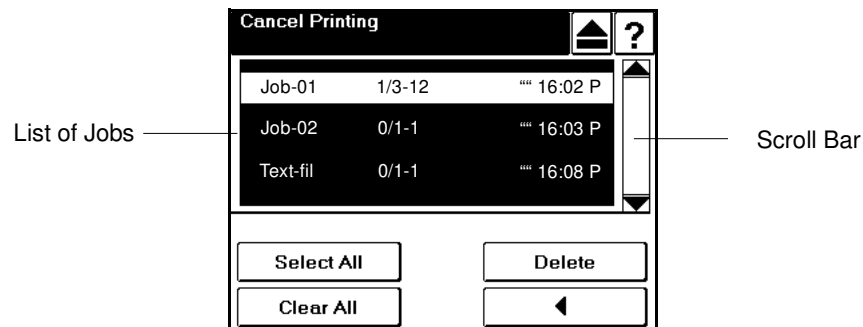
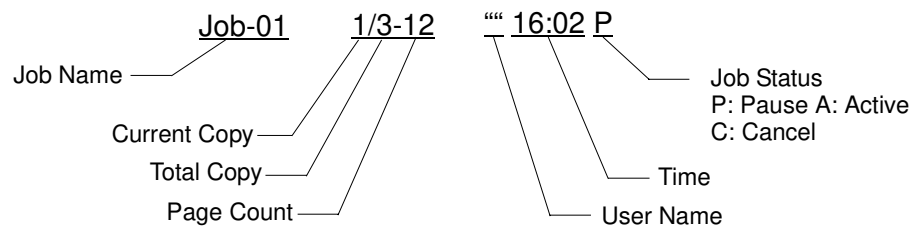


Figure 2-11. Jobs Menu

List of Jobs

Received jobs in the printer are listed in the screen. Contents of the list is shown below.



You can touch to select each job for canceling.

Scroll Bar

Touch to scroll the list of jobs.

Select All

Touch to select all print jobs for canceling all print jobs.

Clear All

Touch to clear all selected jobs to unselect.

Delete

Touch to delete the selected Job(s).

Sub Panel

Sub panel is equipped to each Input and Output Tray. The contents of sub panel are shown below.

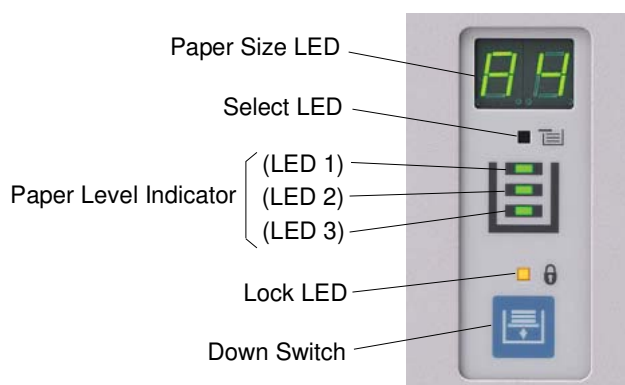


Figure 2-12. Sub Panel

Paper Size LED

Indicates paper size that is loaded in the Input Tray or stacked in the Output Tray. See [“Paper Size Indication” on page 3-4](#) for indication of each paper size.

Select LED

When this LED is ON, it means the Tray is currently selected.

When this LED is blinking, it means the following cases;

- Paper jam is occurred at selected tray.
- Down Switch was pressed.

Paper Level Indicator (LED1/2/3)

For Input Tray, it indicates paper level (paper amount) that is loaded in the Input Tray by 3 levels. For Output Tray, it indicates paper level (paper amount) that is stacked in the Output Tray by 3 levels.

When all LEDs are off, it means the Input Tray or the Output Tray is empty.

When LED3 is blinking, it means the Input Tray or the Output Tray is near empty.

When LEDs for Output Tray are blinking, it means the Output Tray is full.

Lock LED

When this LED is ON, Input Tray or Output Tray is locked, and cannot be opened.

When this LED is OFF, Input Tray or Output Tray is unlocked, and can be opened.

When this LED is blinking, it means the table in the Tray is moving up or down.

Down Switch

Use to unlock the Tray. When the Lock LED is ON, press this switch to down the table in the Tray and unlock the Tray.

Blank

OG	L	0 0	
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Chapter 3

Paper Handling

What This Chapter Provides

This chapter contains information on the following topics.

- [Paper](#)
- [Paper Sizes, Paper Weights, Paper Types and Paper Color](#)
- [Loading Paper](#)
- [Setting the Non-Standard Paper Size](#)
- [Setting the Paper Weight Value](#)
- [Setting the HV Adjust Values](#)
- [Setting the Table Adjust](#)
- [Setting the Paper Moisture](#)
- [Preparing the Stacker](#)
- [Removing Paper](#)

Paper

To obtain good print quality, use the recommended paper and properly position it in the correct trays. For the loading paper, see [“Loading Paper” on page 3-7](#). Refer to [Appendix B](#) for detailed information about paper specifications and printing on special print media.

Unacceptable Paper

Avoid using the following media as they cause paper jams and print quality problems.

- Excessively thick or thin paper
- Paper that has already been printed (preprinted letterhead is allowed)
- Wrinkled, torn, or bent paper
- Moist or wet paper
- Curled paper
- Paper with an electrostatic charge
- Glued paper
- Paper with special coating
- Colored paper with surface treatment
- Paper unable to withstand temperature of 210°C (410°F) and pressure of about 250kPa (36.3k lbs/in²)
- Thermal paper
- Carbon paper
- Paper with paper fasteners, ribbons, tape, etc., attached
- Heavily textured paper
- Label stock with exposed backing sheets

Storing Paper

Store the paper properly to avoid print quality problems and paper jams.

- Store paper horizontally, in a flat, dry location to avoid wrinkling, bending, curling, etc.
- Store paper away from direct sunlight.
- Store any unused paper in its original packing.

Paper Sizes, Paper Weights, Paper Types and Paper Color

Paper Size

The following table show which paper sizes can be used in this printer. The paper size is shown in both millimeters and inches.

- The term *SEF* indicates the paper is being fed into the printer short edge first and the term *LEF* indicates the paper is being fed into the printer long edge first.
- This printer classifies paper size into “Standard” and “Custom” by using “Custom Size Switch” in the each tray.
 - When you use “Standard” size shown in following table, set the “Custom Size Switch” in the tray to “Standard”. Printer will automatically detects paper size.
 - When you use other than “Standard” size shown in following table, set the “Custom Size Switch” in the tray to “Custom”, and set appropriate paper size by using OCP.

See [“Loading Paper” on page 3-7](#) for more information.

Table 3-1. Paper Size

Paper Size	Leading Edge mm/inch	Side Edge mm/inch	Standard
B5 (LEF)	257.0/10.13	182.0/7.17	✓
A4 (SEF)	210.0/8.3	297.0/11.7	
A4 (LEF)	297.0/11.7	210.0/8.3	✓
B4 (SEF)	257.0/10.1	364.0/14.3	✓
A3 (SEF)	297.0/11.7	420.0/16.5	✓
Letter (LEF)	279.0/11.0	216.0/8.5	✓
Letter (SEF)	216.0/8.5	279.0/11.0	
Folio (LEF)	330.0/13.0	216.0/8.5	
Folio (SEF)	216.0/8.5	330.0/13.0	
Legal (LEF)	356.0/14.0	216.0/8.5	✓
Legal (SEF)	216.0/8.5	356.0/14.0	
Ledger (SEF)	279.0/11.0	432.0/17.0	✓
Executive (LEF)	266.7/10.5	184.2/7.25	
Super B (SEF)	305.0/12.0	457.0/18.0	
Custom (0.1 mm/0.1 in. increments)	203.2 to 355.6/ 8.0 to 14.0	177.8 to 457.2/ 7.0 to 18.0 (Note1)	






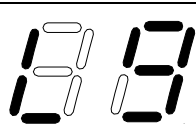

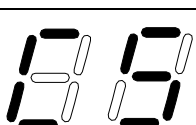
Note 1: Applicable paper size of the HCF1 and HCF2 is from 182.0mm (7.17”) to 457.2mm (18.0”).

Paper Size Indication

Each Input Tray and Output Tray is equipped with the Paper Size LED for indicating current loaded or stacked paper size in the tray.

Following table shows paper size indication for each paper size.

Table 3-2. Paper Size Indication

Paper Size	Switch Position	Indication
B5 (LEF)	Standard	
A4 (LEF)		
B4 (SEF)		
A3 (SEF)		
Letter (LEF)		
Legal (LEF)		
Ledger (SEF)		
Other Sizes	Custom	

Paper Weights

The printer can define the following paper weights in all paper trays, including the HCF.

Table 3-3. Paper Weights

Paper Size and Feed Orientation	Paper Weights
B5(LEF), A4(LEF), Letter(LEF), Legal(LEF), Executive(LEF), Folio(LEF) and Custom Size: Side edge =< 215.9mm (8.5")	From 60g/m ² (16lbs) to 199g/m ² (110(index)lbs)
A4(SEF), B4(SEF), A3(SEF), Letter(SEF), Legal(SEF), Ledger(SEF), Super B(SEF), Folio(SEF) and Custom Size: Side edge > 215.9mm (8.5")	From 75g/m ² (20lbs) to 199g/m ² (110(index)lbs)

To set the paper weight using the OCP, see [“Setting the Paper Weight Value” on page 3-19](#).

Paper Type

The printer can define the following paper type in all paper trays, including the HCF.

- Plain
- Bond
- Color
- Label
- Letterhead
- Preprinted
- Prepunched
- Recycled
- Tracing Paper
- Special
- Other

Paper Color

The printer can define the following paper color in all paper trays, including the HCF.

- White
- Pink
- Yellow
- Buff
- Goldenrod
- Blue
- Green

Additionally, user can define desired color name as the custom color. The custom color can be defined up to 80 colors.

Loading Paper

Load paper into the trays according to the instructions that follow. Thoroughly understand and follow the instructions to prevent any paper troubles such as paper jams and paper skew. See [“Loading Special Media” on page 3-13](#) for directions on loading prepunched and preprinted paper. Paper can be loaded while a print job is running, except into the tray that is currently in use.

Proper Paper Handling

Paper is easily affected by storage conditions and environments much as room temperature or humidity. When the proper moisture content of paper is not maintained due to sudden temperature changes, the paper may be deformed as shown below and cause paper jams.

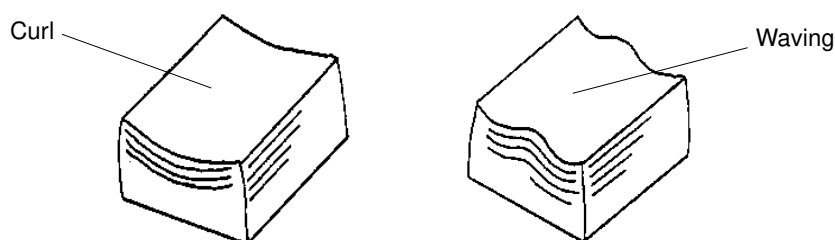


Figure 3-1. Proper Paper Handling (1)

Follow the instructions below to prevent paper jams.

- Unwrap paper just before printing. Do not leave unwrapped paper for a long time before printing.
- Check the paper in the Input Tray has not become deformed before printing. If the paper is deformed, remove it from the Input Tray.
- Paper may become deformed and the edges curl upward during the night or holidays, when the air conditioner or ventilators are temporarily turned off. Remove paper from the Input Tray and store with moisture-proof wrapping before the night or holidays.

Checking paper quality

Carefully checking paper quality when unwrapping or before loading into the Input Tray. Remove and do not use any paper with the following defects.
(When finding any defects immediately after unwrapping, consult to the vendor for paper quality.)

- Tears, Creases, Dog-eared corners

Paper jams or paper skew may be caused in the Input Tray.

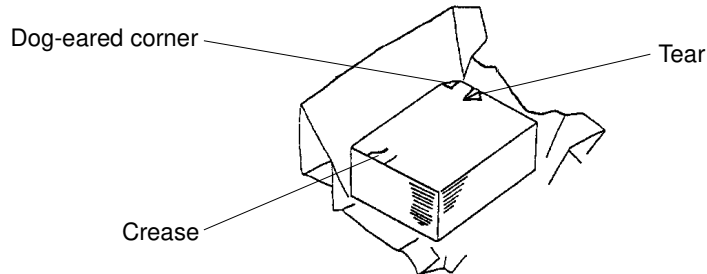


Figure 3-2. Proper Paper Handling (2)

- Curled edges

The Dram Wrap jam may be caused.

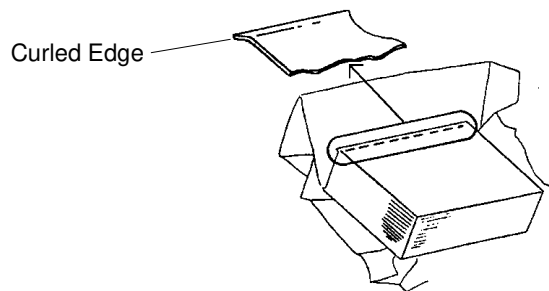


Figure 3-3. Proper Paper Handling (3)

- Burrs

The Dram Wrap jam may be caused.

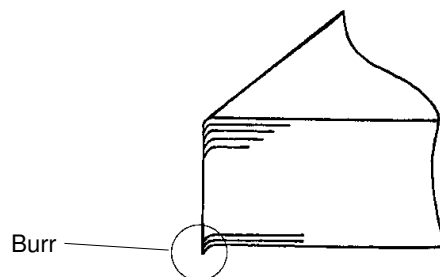


Figure 3-4. Proper Paper Handling (4)

When paper jam is occurred, turn the paper in the Input Tray upside down. It may prevent frequently paper jams caused by this defect.

Loading Paper in Tray

1. Unlock the Tray by pressing the Down Switch if the Lock LED is ON.

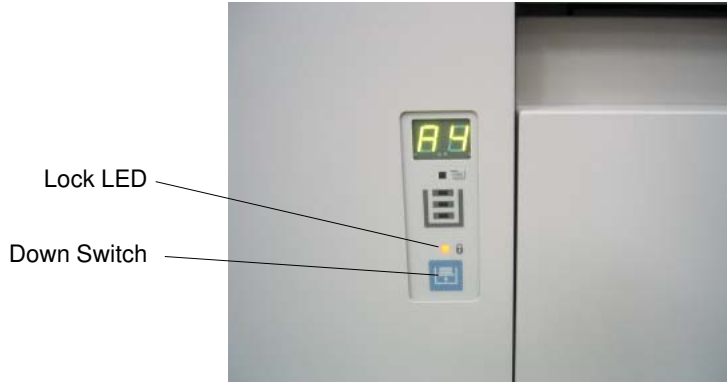


Figure 3-5. Loading Paper in Tray (1)

NOTE:

Tray is locked when paper is remaining in the tray. If you press the Down Switch, wait until the Lock LED is OFF.

2. Open the Tray by pulling it by the handle.



Figure 3-6. Loading Paper in Tray (2)

-
3. Unpack the paper, and hold the paper on your hand.

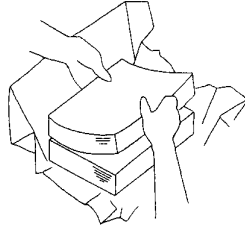


Figure 3-7. Loading Paper in Tray (3)

NOTE:

Do not hold too much paper at a time. Pick up only 200 - 500 sheet at a time.

4. Place the paper into the Tray.

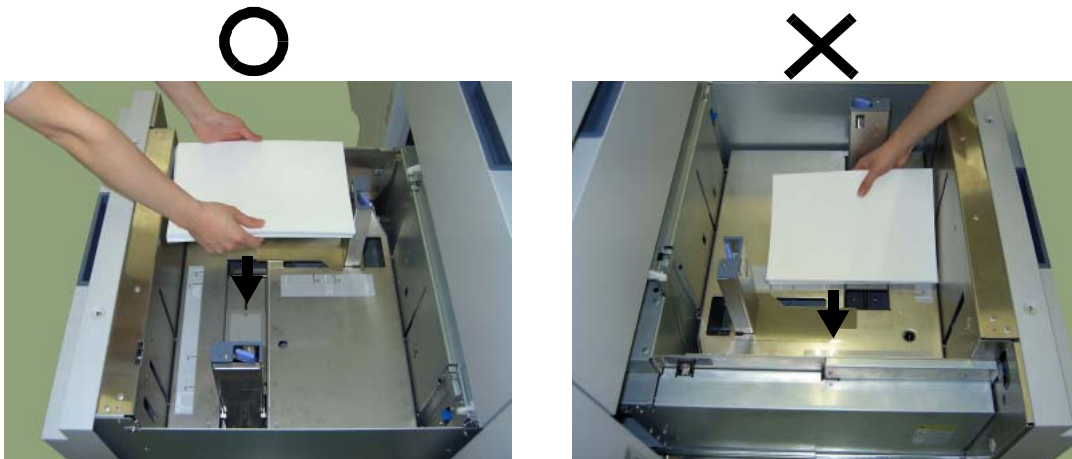


Figure 3-8. Loading Paper in Tray (4)

NOTE:

Gently place the paper on top. To prevent any damage to the paper edge, do not slide the paper on the table.

Place the paper to fit the Front-Left corner in the Input Tray.

Before loading the paper, the tray table position is high, and the paper is placed more than 1,000 sheets, the tray table is automatically down. The tray table can be downed manually by pressing the Down Switch.

-
5. Move the Paper Guide and contact it to the paper edge.

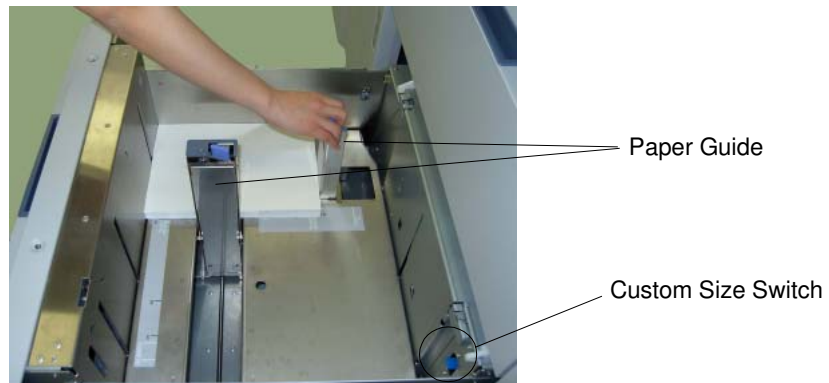


Figure 3-9. Loading Paper in Tray (5)

NOTE:

Confirm that there is no large gap between the paper and the Paper Guide. A paper jam may be caused if there is large gap (more than 1mm).

6. Paper can be added until the Max. Level Indicator

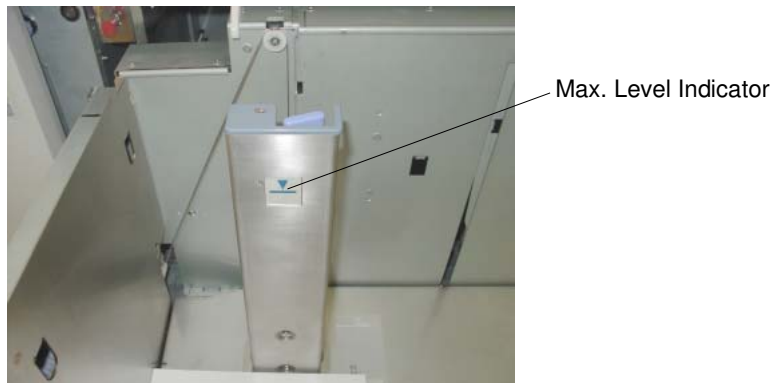


Figure 3-10. Loading Paper in Tray (6)

NOTE:

Do not add the paper more than the max. level indication.

-
7. If the paper size you have loaded is a standard size, set the Custom Size Switch to “Standard” position. If the paper size you have loaded is a non-standard or a custom size, set the Custom Size Switch to “Custom” position.



Figure 3-11. Loading Paper in Tray (7)

NOTE:

Standard paper sizes are shown in a table [“Paper Sizes, Paper Weights, Paper Types and Paper Color”](#) on page 3-3.

8. Gently close the Tray.

NOTE:

The Paper Height Error (E0BB, E0BD, E0BF, E0C1, E0C3 or E0C5) might be caused if there is paper deformation such as curl, waving or folding. In this case, remove the deformed paper from the Tray.

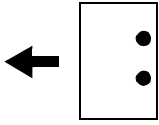
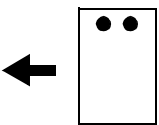
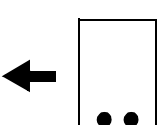
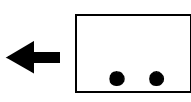
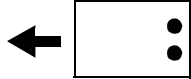
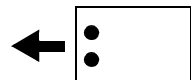
9. If the paper specification you have loaded is a first use, or paper specification is changed from previous one, set the paper weight refer to [“Setting the Paper Weight Value”](#) on page 3-19.
10. If the paper size you have loaded is a non-standard size, see [“Setting the Non-Standard Paper Size”](#) on page 3-15.

Loading Special Media

Pre-punched Paper

Load pre-punched paper as indicated in the following diagrams. Refer to [Appendix B](#) for more information about using pre-punched paper.

Table 3-4. Loading Direction of Pre-punched Paper

Feeding Direction	Binding	Print Orientation	Loading Direction
Long Edge Feed	Long Edge Binding	Portrait/Landscape	
	Short Edge Binding	Portrait	
		Landscape	
Short Edge Feed	Long Edge Binding	Portrait/Landscape	
	Short Edge Binding	Portrait	
		Landscape	

Loading Pre-printed Paper

Load pre-printed paper as indicated in the following table. Refer to [Appendix B](#) for more details about using pre-printed paper.

Table 3-5. Loading of Pre-printed paper

Paper Type	Print Mode	Page Order	Loading
Front/Back Face Predetermined	Simplex/ Duplex	Normal / Reverse	Front face down
Page Number Predetermined	Simplex/ Duplex	Normal	First sheet on top, front face down
		Reverse	Last sheet on top, front face up

NOTE:

Do not use the “Sample” button or the “Auto Proof Sample” function when using the page number predetermined paper.

Setting the Non-Standard Paper Size

If the paper size you have selected is a non-standard size, you must set the paper size using the OCP. First, follow the steps for loading paper into the desired tray, then perform these steps.

1. Before closing the tray, set the Custom Size Switch located in the tray to “Custom” position



Figure 3-12. Setting the Non-Standard Paper Size(1)

2. To display the Paper Size screen, making the following selection on the OCP:

Printer/Paper Source/Paper Size

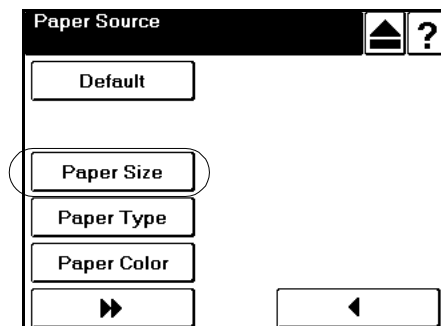


Figure 3-13. Setting the Non-Standard Paper Size (2)

3. Select desired paper tray to set the paper size.

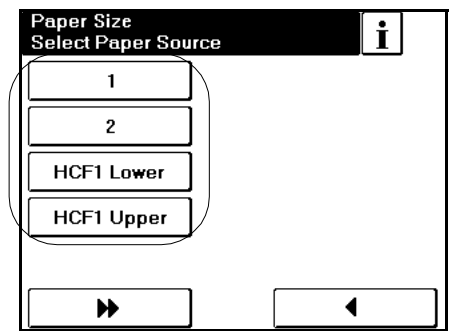


Figure 3-14. Setting the Non-Standard Paper Size (3)

4. If the paper size you have loaded is already listed, then touch desired paper size button, and touch the “■” button. The display returns to Select Paper Source screen and the size you have entered is shown.

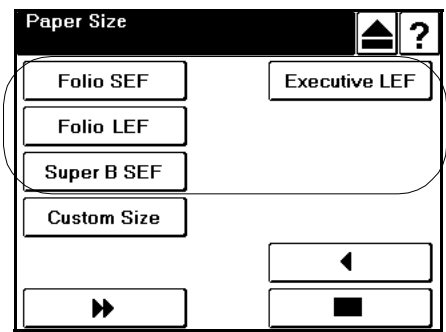


Figure 3-15. Setting the Non-Standard Paper Size (4)

5. If the paper size you have loaded is the custom size, then touch the Custom Size button. The Custom Paper Size screen is shown

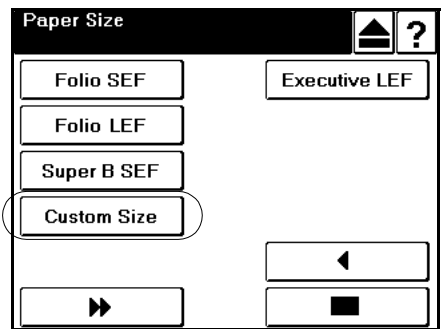


Figure 3-16. Setting the Non-Standard Paper Size (5)

- On the Custom Paper Size screen, select the unit of paper size, and touch the value box for the leading edge (the arrow in the illustration points to the leading edge). The Custom Paper Size input screen is displayed.

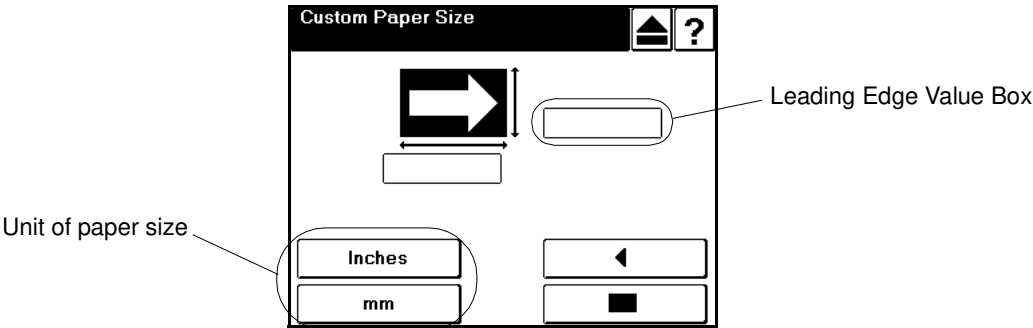


Figure 3-17. Setting the Non-Standard Paper Size (6)

- Using the ten key pad, enter the value for the leading edge of the paper.

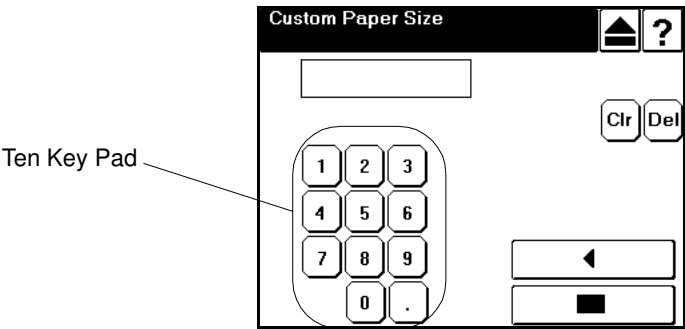


Figure 3-18. Setting the Non-Standard Paper Size (7)

- Touch the “■” button. The display returns to Custom Paper Size and the value you have entered is shown.
- Touch the value box for the side edge. The display returns to Custom Paper Size Input.

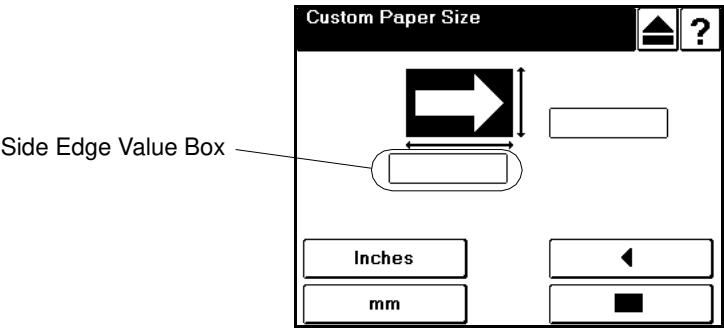


Figure 3-19. Setting the Non-Standard Paper Size (8)

-
10. Using the ten key pad, enter the value for the side edge of the paper.
 11. Touch the “■” button. The display returns to Custom Paper Size screen and now both values you have entered are displayed.
 12. Touch the “■” button. Your custom paper size settings are now saved.

Setting the Paper Weight Value

When you load paper into the tray, you must set the paper weight value by using the OCP.



CAUTION!

You must set the correct paper weight value. The incorrect paper weight value may cause paper jam.

1. To display the Paper Weight screen, make the following selection from the OCP:

Printer/Paper Source/Paper Weight

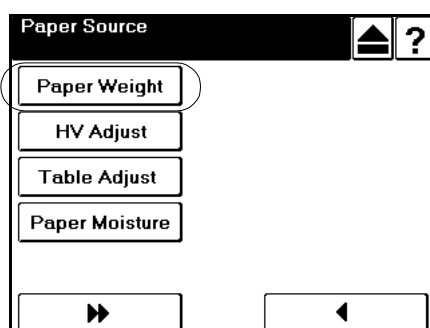


Figure 3-20. Setting the Paper Weight Value (1)

2. Select desired paper tray to set the paper weight. The Paper Weight input screen is displayed.

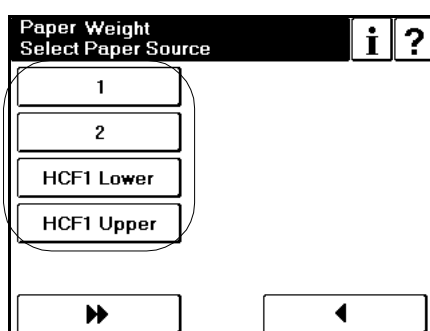


Figure 3-21. Setting the Paper Weight Value (2)

3. Select the unit of paper weight, and enter the paper weight value by using the Ten Key Pad.

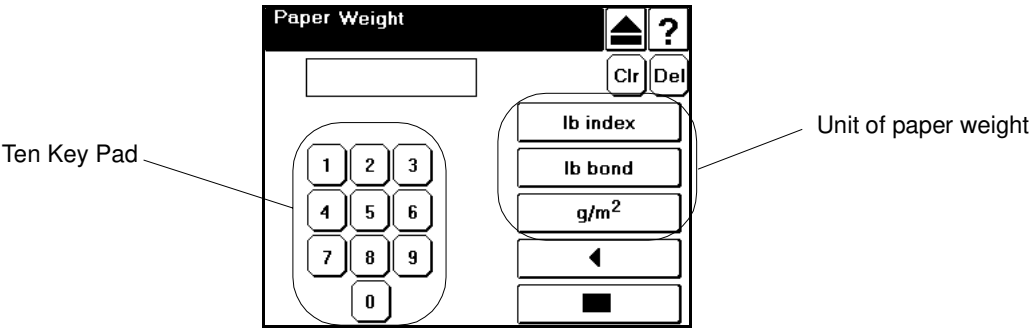


Figure 3-22. Setting the Paper Weight Value (3)

4. Touch the “■” button. The display returns to Select Paper Source screen and now paper weight value you have entered are displayed.

Setting the HV Adjust Values

The HV adjust feature is used when it is necessary to shift the image on the printed page. You can shift the image ± 0.25 in. (± 6.3 mm). When printing in duplex mode, you can set different HV adjust values for the front side and back side of the paper.

1. To display the HV Adjust screen, make the following selections from the OCP:

Printer/Paper Source/HV Adjust

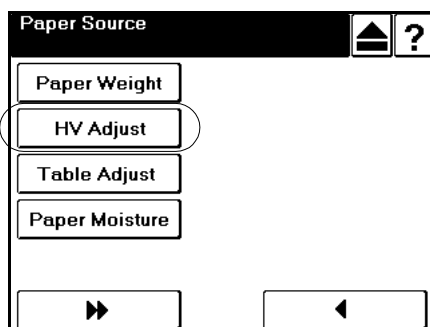


Figure 3-23. Setting the HV Adjust Values (1)

2. On the Tray Adjust screen, choose Front or Back face you will adjust, and select the unit of adjust value.

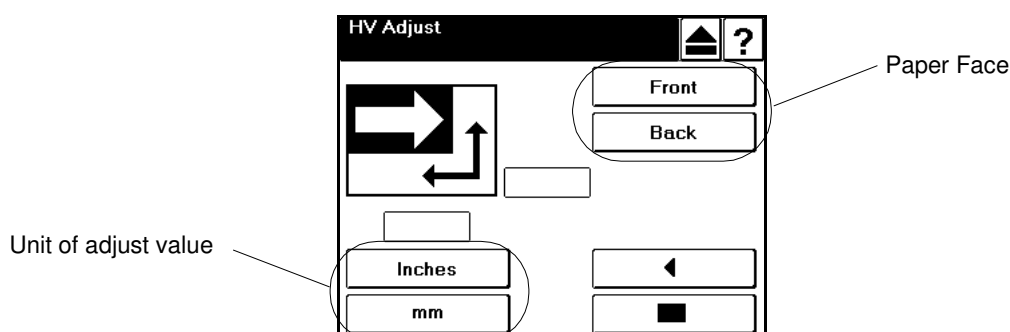


Figure 3-24. Setting the HV Adjust Values (2)

3. Touch the vertical position value box. The HV Adjust input screen is displayed.

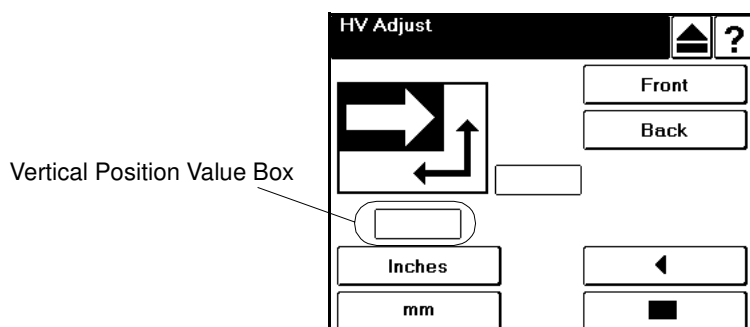


Figure 3-25. Setting the HV Adjust Values (3)

4. Using the Ten Key Pad, enter the value for the vertical image position (feed direction) of the paper. For example, entering + 0.25 moves the image 0.25 in. to the right on the printed page.

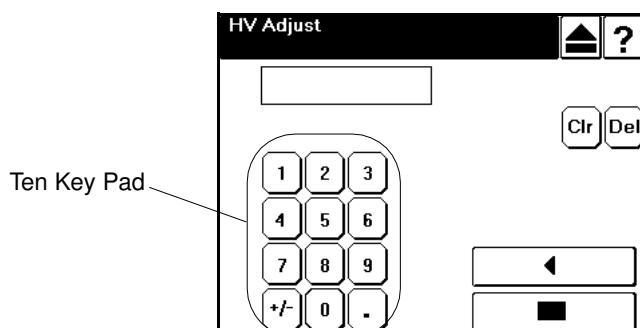


Figure 3-26. Setting the HV Adjust Values (4)

5. Touch the "■" button. The display returns to the HV Adjust screen and the value you have entered is shown.
6. Touch the horizontal position value box. The display returns to HV Adjust Input.

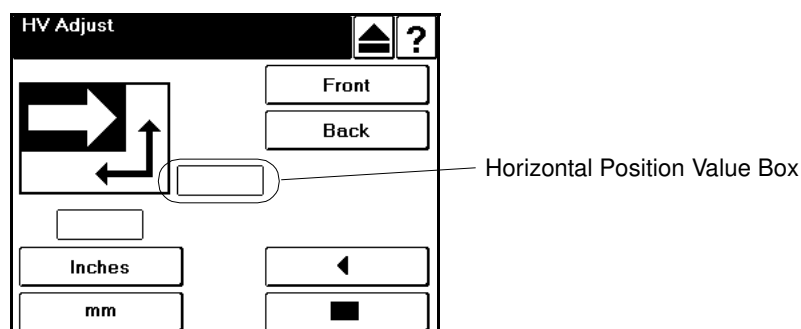


Figure 3-27. Setting the HV Adjust Values (5)

7. Using the Ten Key Pad, enter the value for the horizontal image position (scan direction) of the paper. For example, entering + 0.25 moves the image 0.25 in. to the top of the printed page.
8. Touch the "■" button. The display returns to the HV Adjust screen and now both values you have entered are displayed.
9. Touch the "■" button. Your HV Adjust settings are now saved.

Setting the Table Adjust

Table Adjust is a function for adjusting the table height of the Input Tray. This function is used when try to resolve occurrence of following paper jams.

- Paper Jam Tray 1 (E1A0, E1A1, E1A2)
- Paper Jam Tray 2 (E1A3, E1A4, E1A5)
- Paper Jam HCF1 Lower (E1A6, E1A7, E1A8) (if installed)
- Paper Jam HCF1 Upper (E1A9, E1AA, E1AB) (if installed)
- Paper Jam HCF2 Lower (E1AF, E1B0, E1B1) (if installed)
- Paper Jam HCF2 Upper (E1B2, E1B3, E1B4) (if installed)
- Double Feed Jam Tray 1(E150, E151)
- Double Feed Jam Tray 2 (E152, E153)
- Double Feed Jam HCF1 Lower (E154, E155) (if installed)
- Double Feed Jam HCF1 Upper (E156, E157) (if installed)
- Double Feed Jam HCF2 Lower (E15A, E15B) (if installed)
- Double Feed Jam HCF2 Upper (E15C, E15D) (if installed).

NOTE:

Before using this function, check the deformation of the paper in the Tray, such as curl, waving or folding. If the paper has deformation, remove the deformed paper in the Tray.

If other paper is loaded after changing the Table Adjust setting, paper jams listed above may occur. Restore to “Normal” setting if loading other paper.

1. To display the Table Adjust screen, make the following selections from the OCP:

Printer/Paper Source/Table Adjust

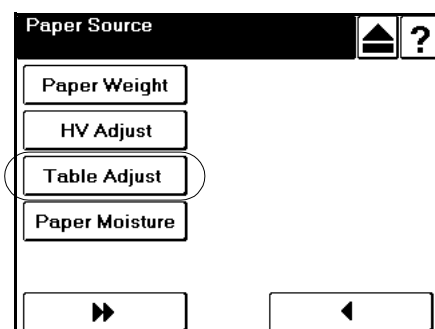


Figure 3-28. Setting the Table Adjust (1)

-
2. Select desired paper tray to adjust the table height. If the paper weight in the tray is less than 75g/m², select the “Thin” button. If the paper weight is 75g/m² or above, select the “Thick” button.

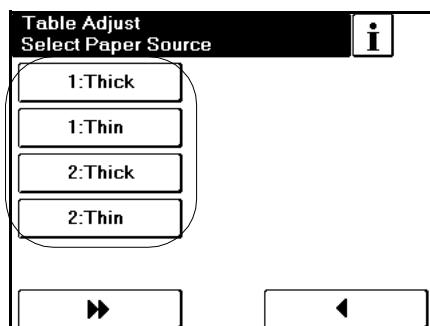


Figure 3-29. Setting the Table Adjust (2)

3. Change the Table Adjust setting refer to following guidelines, and touch the “■” button.
- If “Paper Jam xxxx” is occurred, change to “+1”. If “Paper Jam xxxx” is not solved, change to “+2”.
 - If “Double Feed Jam xxxx” is occurred, change to “-1”. If “Double Feed Jam xxxx” is not solved, change to “-2”.

The display returns to the Select Paper Source screen and Table Adjust setting you have entered are displayed.

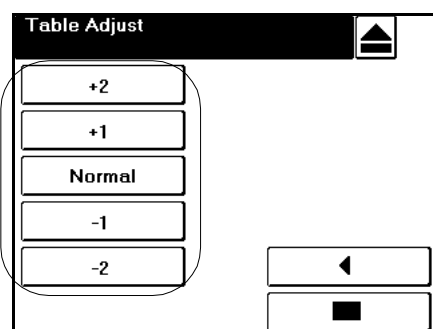


Figure 3-30. Setting the Table Adjust (3)

Setting the Paper Moisture

This function is used when try to resolve occurrence of following paper jams.

- Dram Wrap (E17A, E17B)

The Paper Moisture can be set to the each Input Tray independently.

NOTE:

Before using this function, check the deformation of the paper in the Tray, such as curl, waving or burrs. If the paper has deformation, remove the deformed paper in the Tray.

If other paper is loaded after changing the Paper Moisture setting, paper jams listed above may occur. Restore to the “Normal” setting if loading other paper.

1. To display the Paper Moisture screen, make the following selections from the OCP:

Printer/Paper Source/Paper Moisture

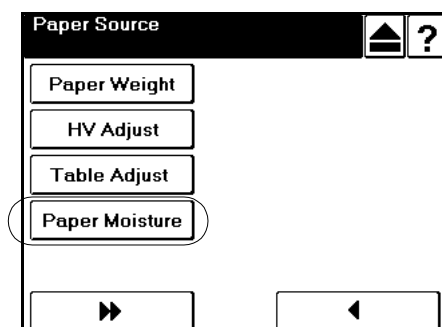


Figure 3-31. Setting the Paper Moisture (1)

2. Select desired paper tray to set the Paper Moisture. The Paper Moisture setting screen is displayed.

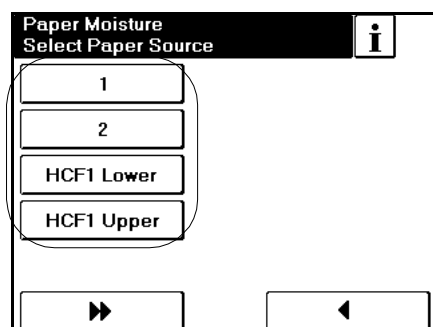


Figure 3-32. Setting the Paper Moisture (2)

3. Change the Paper Moisture setting refer to following guidelines, and touch the “■” button.

- If the paper contains moisture, change to “Higher”. If “Dram Wrap” is not solved, change to “Highest”.
- If the paper is dry, change to “Lower”.

The display returns to the Select Paper Source screen and Paper Moisture setting you have entered are displayed.

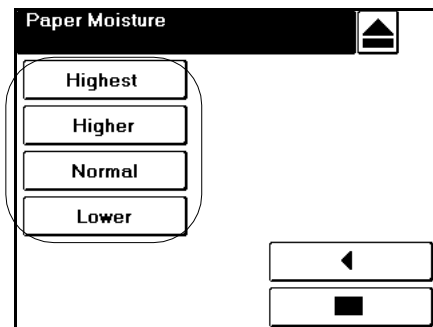


Figure 3-33. Setting the Paper Moisture (3)

Preparing the Stacker

Set the Basket into the Stacker according to the instructions that follow.

Set the Basket into the Stacker

1. Confirm that the Lock LED is OFF.



Figure 3-34. Set the Basket into the Stacker (1)

2. Pull out the Drawer by pulling it by the handle.



Figure 3-35. Set the Basket into the Stacker (2)

3. Set the empty Basket on the Drawer.



Figure 3-36. Set the Basket into the Stacker (3)

4. Close the Drawer.

Removing Paper

Removing Paper from the Stacker

1. Set the Basket Lift Tool on the floor.



Figure 3-37. Removing Paper from the Stacker (1)

2. Unlock the Drawer by pressing the Down Switch if the Lock LED is ON.



Figure 3-38. Removing Paper from the Stacker (2)

NOTE:

Drawer is locked during the Lock LED is ON. If you press the Down Switch, wait until the Lock LED is OFF.

-
3. Pull out the Drawer by pulling it by the handle.



Figure 3-39. Removing Paper from the Stacker (3)

NOTE:

Gently pull out the drawer to prevent collapse of paper stacking.

4. Remove the Basket from the Drawer.



CAUTION!

Depending on amount of paper, the Basket is very heavy. Take care not to hurt your back when lifting a heavy Basket.



Figure 3-40. Removing paper from the Stacker (4)

-
5. Put and drop the Basket onto the Basket Lift Tool.



Figure 3-41. Removing paper from the Stacker (5)

6. Remove the paper from the Basket.

Chapter 4

Care and Maintenance

What This Chapter Provides

This chapter contains the following information:

- [Replacing Consumables](#)
- [Clearing Paper Jams](#)
- [Cleaning the Printer](#)
- [Handling and Storing Consumables](#)

Replacing Consumables

When a consumable needs to be replaced, the printer stops printing and displays an error message indicating which consumable should be replaced. The following table shows the life expectancy of each consumable.

Table 4-1. Life of Consumables

Consumable	Life Expectancy
Toner	54,000 images (5% coverage)
Developer Mix	800,000 rotations (720,000 images)
Fuser Cleaning Web	600,000 - 200,000 images
Fine Filter	2,250,000 images (5% coverage)
Toner Bag	Exchange for every two toner supply

NOTE:

The projected life of the above consumables are based on 5% image coverage, on Xerox 4024 letter size 20 lb paper, or 90% print utilization.

The actual point at which the supplies should be replaced will vary with the type of materials you are pointing.

Waste materials should be disposed of under conditions which meet all federal, state and local environmental regulations. Since regulations may vary from one region to another, check with the agency that governs waste disposal in your area for proper procedures.

The life expectancy of the consumables is calculated using the assumption that 90% of drum rotations result in printed pages. This allows for the extra rotations at the start and end of a printing cycle. Each rotation of the drum results in wear because of the drum cleaning brush and the charge/discharge cycles. If the jobs are short resulting in the printer stopping and starting frequently, then the consumable lifetime of the drum will be lower.

The life of fuser cleaning web "600,000 images" is based on the following conditions.

Stop frequency is once every 250 images, and web rolling-up interval is once every 60 images.

The life of fuser cleaning web "200,000 images" is based on the following conditions.

Stop frequency is once every 250 images, and web rolling-up interval is once every 20 images.

¹ Coverage is calculated per printed sheet and is defined as the ratio of area with toner to the total area of the sheet. Toner usage is based on 5% coverage when the toner density level is set to the default value (1.3 optical density for solid black areas printed on Xerox 4024 paper). The following items affect toner coverage: the printed image content, the paper used, and the condition and calibration of the printer. Actual toner usage may vary due to these factors.

Adding Toner

When the OCP displays the message Toner Low, add the toner.

1. Open the Toner Supply Cover.

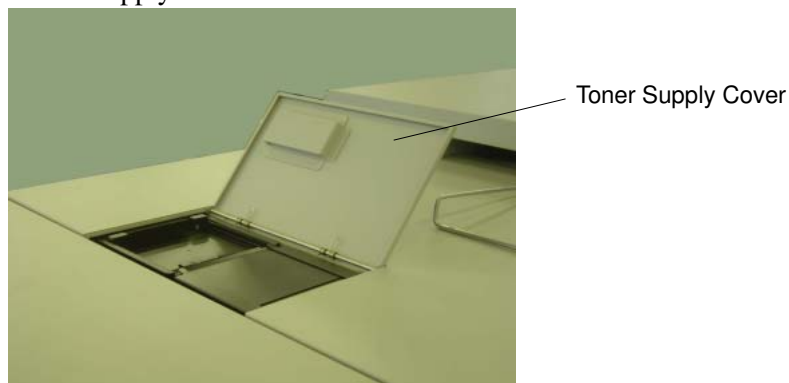


Figure 4-1. Adding Toner (1)

2. Make sure that the mouth of the toner bottle is closed. Rotate the toner bottle up and down with shaking about 10 times.

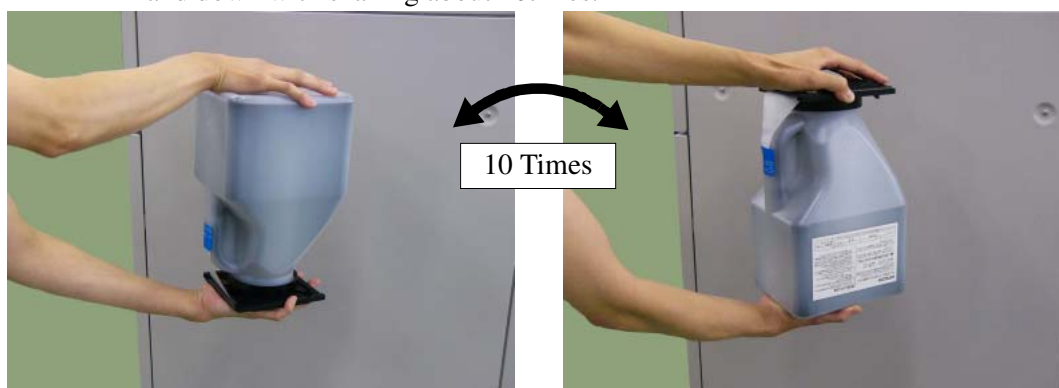


Figure 4-2. Adding Toner (2)



CAUTION!

Toner is not harmful to the human body, but if some toner has come in contact with your skin or clothes, you should wash it immediately with cold water.

-
3. Hold the toner bottle handle, and position the toner bottle on the bottle tray while inserting it into the rear end of the bottle tray.

NOTE:

If the toner bottle is not properly set on the bottle tray, you cannot perform the next step.



Figure 4-3. Adding Toner (3)

4. Pull the toner bottle toward you until it stops.



Figure 4-4. Adding Toner (4)

NOTE:

If the toner bottle is not pulled until it is completely seated, the toner may leak at the time of replacement or may be insufficiently added.

-
5. Pull the sealing tape away from the toner bottle.



Figure 4-5. Adding Toner (5)

6. Tap the top of the toner bottle about 10 to 15 times.



Figure 4-6. Adding Toner (6)

NOTE:

If you do not tap on the toner as described above, the toner may not be added completely.

Be sure to tap on the top of the toner bottle. If you tap on the side of the bottle, the toner may leak.

7. Push the toner bottle back to its original loading position and remove it.



Figure 4-7. Adding Toner (7)

-
8. Close the Toner Supply Cover and discard the empty toner bottle.

NOTE:

*Do not add the toner before the OCP screen displays “Toner Low”.
Always add one bottle of toner (1.36kg) at any one time.*

*Never use the collected waste toner. The collected waste toner may
includes foreign matter. The foreign matter in the toner can damage the
OPC Sheet, causing a print problems.*

*The toner should be used within one year after purchase. Once the toner is
unsealed, use it immediately and do not keep it for later use.*

*If the toner spills out, it can grime your clothes, body, or equipment.
Remove it immediately with a toner-safe vacuum cleaner when toner is
spilled out.*



WARNING!

*Do not throw the toner bottle into a fire because it may suddenly burn,
causing a risk of fire or personal injury.*

Dispose the toner bottle as incombustible waste.



CAUTION!

*The toner is not harmful to the human body. However, take care not to
inhale or swallow it because you may feel sick.*

*If the toner goes into your eyes, immediately rinse with running water. If
affected eyes are not rinsed, it may become injured. If the skin or clothing
is contacted, wash with soap and water*

Replacing the Toner Bag

When the OCP displays the message **Toner Bag Full**, replace the Toner Bag with a new one.

1. Open the Front Cover (R).



Figure 4-8. Replacing the Toner Bag (1)

2. Lift the toner bottle latch arm to unhook the ring, and gently pull out the toner bottle.



Figure 4-9. Replacing the Toner Bag (2)

3. Gently remove the toner bag from the toner bottle.
4. Attach the seal onto the Toner Bag to prevent splashing the toner.

NOTE:

The seal is packed with the new Toner Bag.

-
5. Open a new toner bag and bend the paper stays.

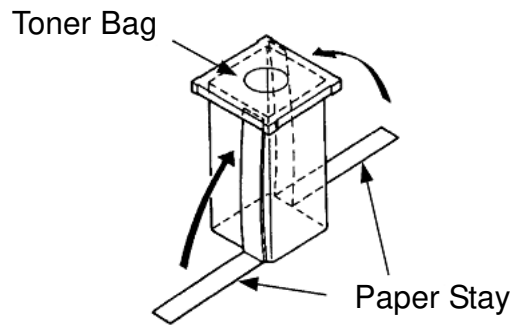


Figure 4-10. Replacing the Toner Bag (3)

6. Set the new toner bag in the toner bottle.
7. Return the toner bottle to its original position, and lock it.
8. Close the Front Cover (R).
9. Put the used toner bag in the supplied polyethylene bag, and properly dispose it.



WARNING!

Waste materials should be disposed of or incinerated under conditions which meet all federal, state and local environmental regulations. Since regulations may vary from one region to another, check with the agency that governs waste disposal in your area for proper procedures.

Replacing the Developer Mix

When the OCP displays the message *Developer Mix. End of Life*, replace the Developer Mix.

Replacing the Developer Mix. is a two-phase process. First you exhaust the Developer Mix., and then you supply it.

Exhausting the Developer Mix

1. Have on hand an empty developer bottle.
2. Open the Front Cover (L).



Figure 4-11. Replacing the Developer Mix (1)

3. Attach the empty developer bottle to the Developer Duct so that the slit of the bottle fits the projection of the duct.

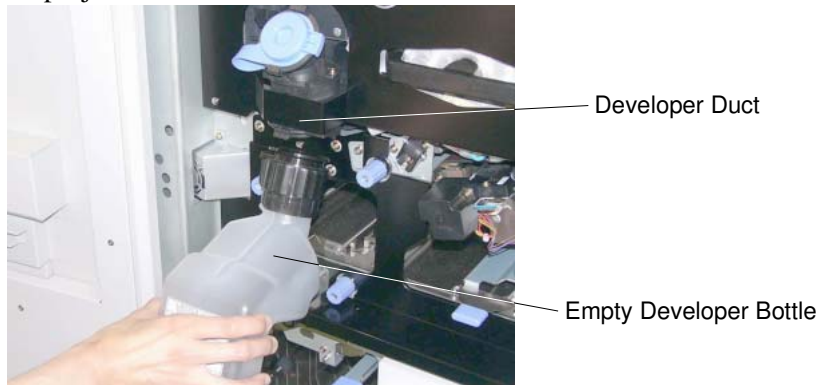


Figure 4-12. Replacing the Developer Mix (2)

-
4. Lock the empty developer bottle by turning the developer bottle cap about 160 degrees in the direction of the arrow until it stops.



Figure 4-13. Replacing the Developer Mix (3)



CAUTION!

Hold the developer bottle when you turn the cap so that the bottle is not turned together with the cap.

5. To start the exhaust process, make the following selections from the OCP and touch the "■" button:

Setup / Consumable / Developer Mix / Exhaust

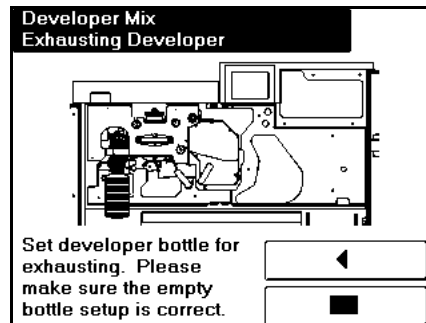


Figure 4-14. Replacing the Developer Mix (4)

-
6. Following screen is displayed during the exhaust process. The exhaust process takes approximately 2 minutes.



Figure 4-15. Replacing the Developer Mix (5)

7. When the exhaust process is done, following screen is displayed. Touch the “◀” button.

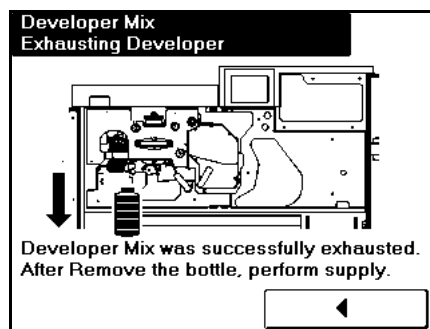


Figure 4-16. Replacing the Developer Mix (6)

8. Remove the developer bottle by turning the bottle cap back about 160 degrees in the direction of the arrow until it clicks.



Figure 4-17. Replacing the Developer Mix (7)

Supplying the Developer Mix

1. Take the new developer bottle out of the box and shake it 5 or 6 times.



Figure 4-18. Replacing the Developer Mix (8)

2. Remove the duct cap from the developer duct.

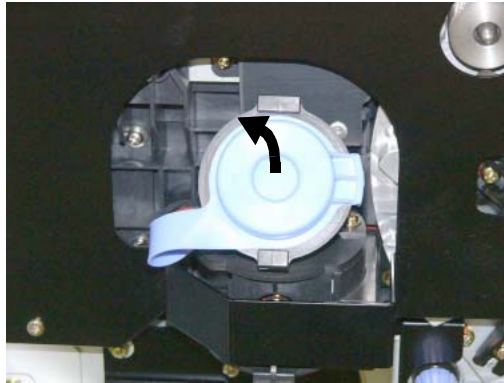


Figure 4-19. Replacing the Developer Mix (9)

3. Set the new developer bottle to the developer duct.



Figure 4-20. Replacing the Developer Mix (10)

-
4. Lock the bottle in place by turning the developer bottle cap about 160 degrees in the direction of the arrow until it stops.

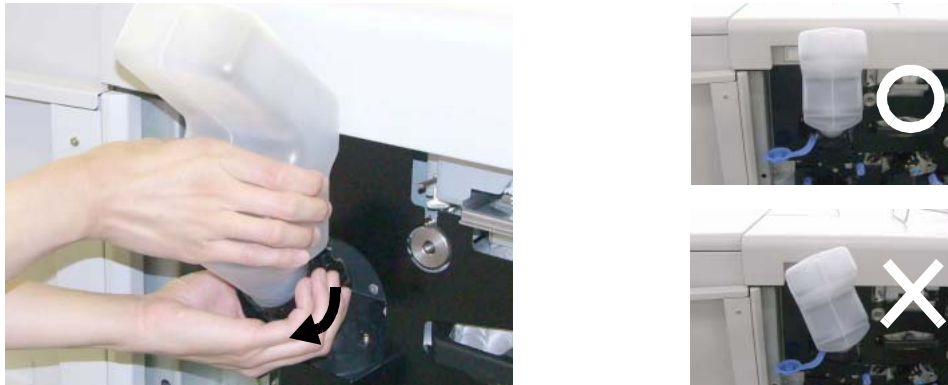



Figure 4-21. Replacing the Developer Mix (11)



CAUTION!

Hold the developer bottle when you turn the cap so that the bottle is not turned together with the cap.

Incorrect setting of the Developer Bottle cause damage to the Developer Unit. Make sure the setting of the Developer Bottle before go to next step.

5. To start the replacement process, make the following selections from the OCP, and touch the “” button:

Setup / Consumable / Developer Mix / Supply

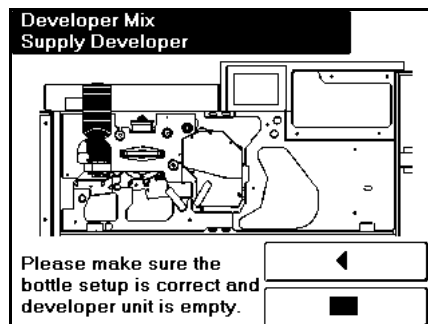


Figure 4-22. Replacing the Developer Mix (12)

-
6. Following screen is displayed during the supply process. The supply process takes approximately 2 minutes.



Figure 4-23. Replacing the Developer Mix (13)

NOTE:

Tap on the top of the developer bottle to empty it.



Figure 4-24. Replacing the Developer Mix (14)

7. When the supply process is done, following screen is displayed. Touch the “◀” button.

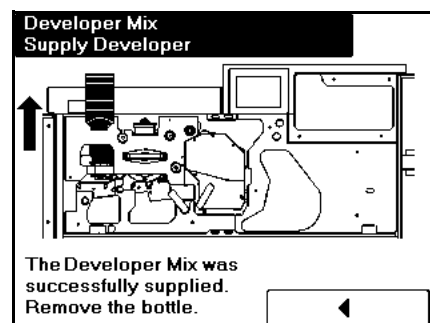


Figure 4-25. Replacing the Developer Mix (15)

-
8. Turn the bottle cap back about 160 degrees in the direction of the arrow until it stops and remove the developer bottle.



Figure 4-26. Replacing the Developer Mix (16)

9. Place the duct cap back on the developer duct.
10. If the developer spills out, wipe it away thoroughly.

NOTE:

Do not dispose the empty developer bottle after replacing. keep it until next developer replacement because it will be used at that point.



CAUTION!

If the developer is spilled out on the floor, the floor becomes very slippery. This may result in a fall and/or injury. Clean up the spilled developer with a toner-safe vacuum cleaner.

If the developer goes into your eyes, immediately rinse with running water. If affected eyes are not rinsed, it may become injured. If the skin or clothing is contacted, wash with soap and water

11. Close the Front Cover (L).

NOTE:

After the OCP displayed “Developer Mix. End of Life” for the first time, the printer can still prints about 60,000 sheets of paper by pressing the “▶” key. (The sheet count may be changed by the number of rotations of photoconductor drum.) However, The developer should be replaced without the delay because the print quality may be affected.

Do not use more than one bottle of developer at any one time. Be sure that the amount of replacing developer is not more than or less than one bottle.

Take care that no foreign matter mixes with the developer. The foreign matter in the developer can damage the OPC Sheet, causing a print problem.

If the developer is contaminated with dirt, oil, water, or other foreign matter, immediately stop the printer and contact your Service Technician.

The developer should be used within one year after purchase. Once the developer is unsealed, use it immediately and do not keep it for later use.



WARNING!

Do not throw the developer bottle into a fire because it may suddenly burn, causing a risk of fire or personal injury.

Replacing the Fuser Cleaning Web

When the OCP displays the message *Fuser Web End of Life*, replace the Fuser Cleaning Web with a new one.

1. Open the Front Cover (R) and Front Cover (L).



Figure 4-27. Replacing the Fuser Cleaning Web (1)

2. Hold up the Fuser Latch and pull out the Fuser Unit.

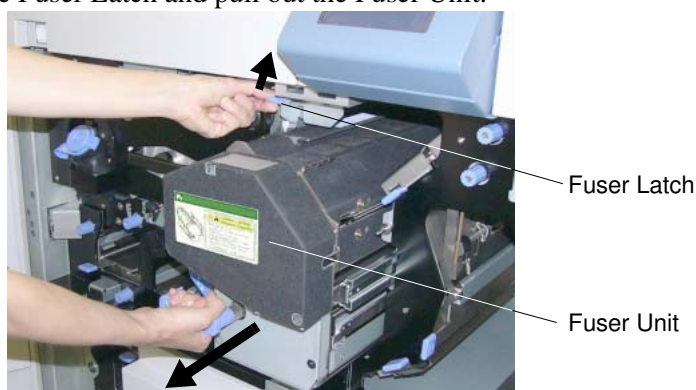


Figure 4-28. Replacing the Fuser Cleaning Web (2)



WARNING!

The Fuser Unit is very hot. Do not touch any parts of the Fuser Unit except those parts which are used to replace the Fuser Cleaning Web.

-
3. Pull down the Web Cassette Latch and pull out the Web Cassette.

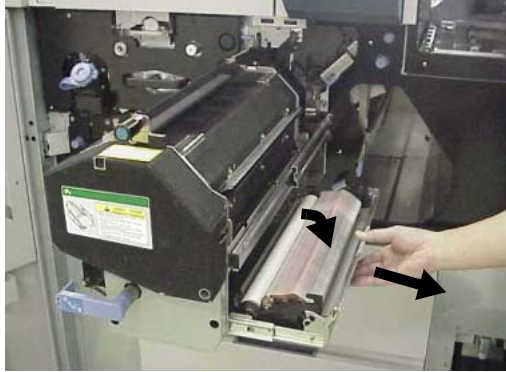


Figure 4-29. Replacing the Fuser Cleaning Web (3)

4. Remove the Fuser Cleaning Web from the Web Cassette

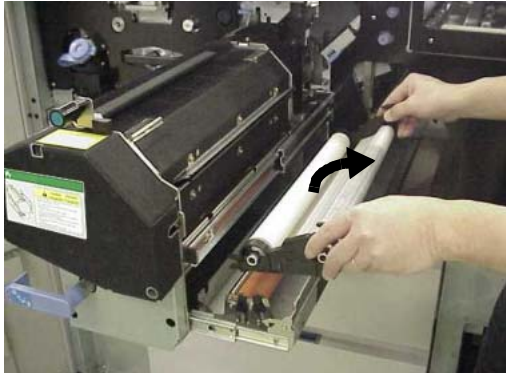


Figure 4-30. Replacing the Fuser Cleaning Web (4)

5. Take the vinyl package away from the new Fuser Cleaning Web.
6. Put the new Fuser Cleaning Web onto the Web Cassette.
7. Push the Web Cassette back to the original position.



Figure 4-31. Replacing the Fuser Cleaning Web (5)

-
8. Push the Fuser Unit back to the original position.



Figure 4-32. Replacing the Fuser Cleaning Web (6)

9. Close the Front Cover (R) and Front Cover (L).
10. To clear the usage counter for the Fuser Web, make the following selections from the OCP, and touch the “■” button:

Setup / Consumable / Fuser Web /

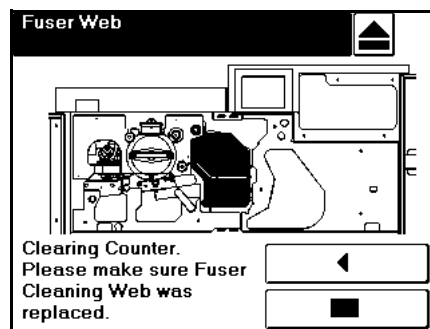


Figure 4-33. Replacing the Fuser Cleaning Web (7)

Replacing the Fine Filter

The OCP displays *Fine Filter End of Life*, replace the Fine Filter with a new one.

1. Open the SF Cover.

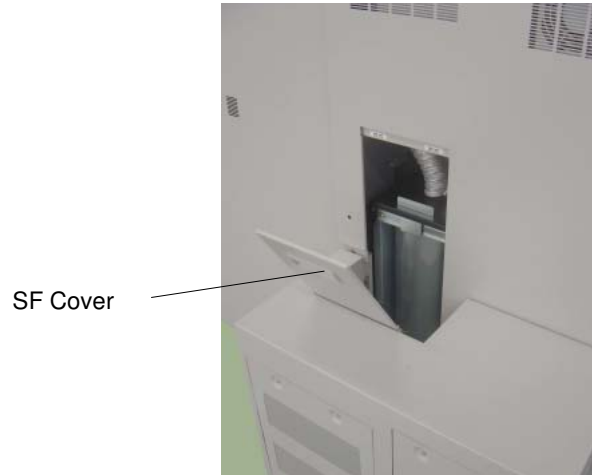


Figure 4-34. Replacing the Fine Filter (1)

2. Push the lever to open the CF Door.



Figure 4-35. Replacing the Fine Filter (2)

-
3. Tilt the CF Case toward the Air System side.
 4. Pull out the Fine Filter to remove it



Figure 4-36. Replacing the Fine Filter (3)

NOTE:

Attach the seal supplying with the new Fine Filter onto the opening of the Fine Filter to prevent splashing the toner.

5. Set the new Fine Filter into the CF Case.
6. Close the CF Door.
7. Close the SF Cover.
8. Place the old Fine Filter in a polyethylene bag and properly dispose of it.

NOTE:

After the OCP displayed “Fine Filter End of Life”, printer can not print at all. Prepare the new Fine Filter for backup anytime.

Winding the OPC Sheet

The OCP displays OPC Sheet End of Life, Winding the OPC Sheet by performing the following step.

NOTE:

Following step can perform if you have a permission to winding the OPC Sheet.

1. To start the winding process, make the following selections from the OCP, and touch the “■” button:

Setup / Consumable / OPC / Winding OPC Sheet

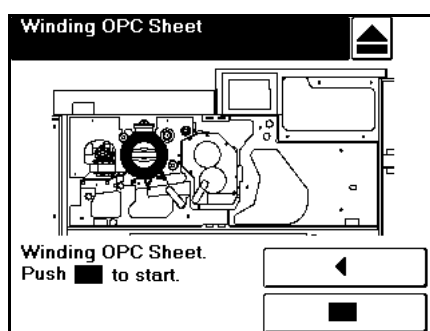


Figure 4-37. Winding the OPC Sheet (1)

2. Following screen is displayed during the supply process.

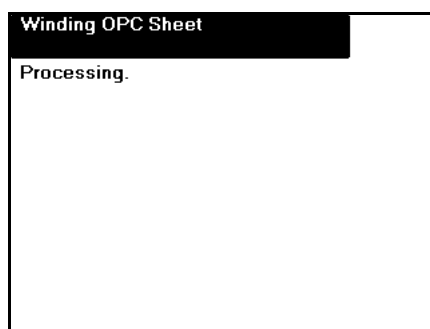


Figure 4-38. Winding the OPC Sheet (2)

NOTE:

Do not open the Front Cover during OPC winding process.

-
3. When the winding process is done, following screen is displayed. Touch the “◀” button.

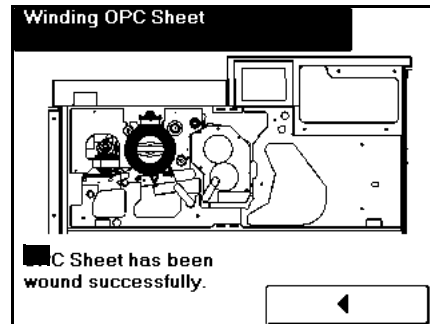


Figure 4-39. Winding the OPC Sheet (3)

NOTE:

After the OCP displayed “OPC Sheet End of Life” for the first time, the printer can still prints about 30,000 sheets of paper by pressing the “▶” key. (The sheet count may be changed by the number of rotations of photoconductor drum.) However, The OPC Sheet should be wound without the delay because the print quality may be affected.

Clearing Paper Jams

When paper jam is occurred, the papers during printing are remained in the printer, and the OCP displays the message and the location of the remained papers.

Followings are basic steps to clearing paper jam.

- If the paper is remained around the Input Station, “Please open Regist cover first” message is displayed. When this message is displayed, open the Regist cover and remove papers according to the “Regist Cover” on page 4-25.

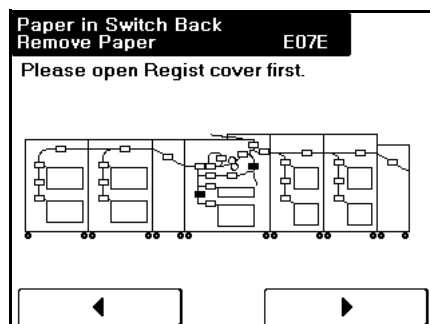


Figure 4-40. Clearing Paper Jams (1)

- After clearing the papers around the Input Station, close the Regist Cover. If the other paper is still remaining in the printer, the OCP displays paper location. Make sure the location of remaining paper, and remove it.

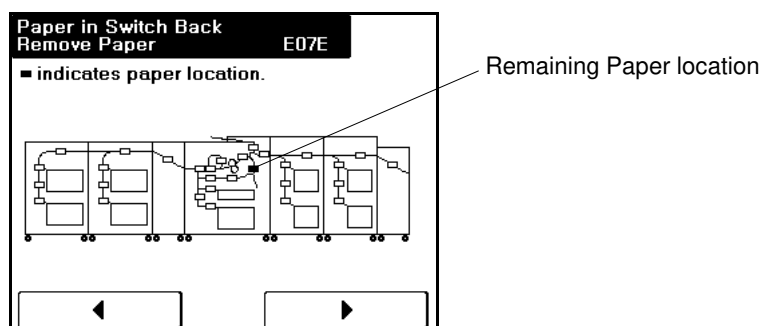


Figure 4-41. Clearing Paper Jams (2)

- If you continue printing a remained job after all papers are removed, touch “▶” button on the OCP.

Regist Cover

When the OCP displays “Please open Regist cover first”, open the Regist Cover and remove papers.

Follow the steps below to clear paper from the Regist Cover.

1. Open the Transit Path Front Cover if the printer has the High Capacity Feeder. If the printer does not have the High Capacity Feeder, skip this step.



Figure 4-42. Clearing Paper from the Regist Cover (1)

2. Open the Regist Cover.



Figure 4-43. Clearing Paper from the Regist Cover (2)

-
3. Remove the jammed paper. Paper along the paper path is automatically ejected onto the Regist Cover.



Figure 4-44. Clearing Paper from the Regist Cover (3)

4. Close the Regist Cover.
5. Open the Transit Path Paper Guide if the printer has the High Capacity Feeder. If the printer does not have the High Capacity Feeder, skip this step and go to the Step 9.



Figure 4-45. Clearing Paper from the Regist Cover (4)

6. Remove the jammed paper. Paper along the paper path is automatically ejected.
7. Close the Transit Path Paper Guide.
8. Close the Transit Path Front Cover.
9. Touch “▶” button on the OCP to clear any error messages.

Input Station Area

If the OCP indicates the paper location as shown below, the paper is remained in the Input Station area.

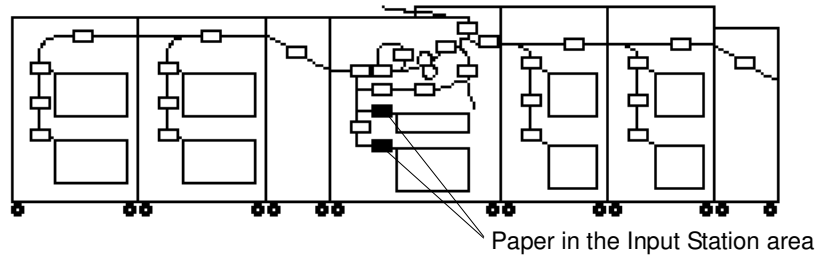


Figure 4-46. Clearing Paper from the Input Station Area (1)

Follow the steps below to clear paper from the Input Station area.

1. Open the Front Cover (L).



Figure 4-47. Clearing Paper from the Input Station Area (2)

2. Rotate the knob to feed the paper.



Figure 4-48. Clearing Paper from the Input Station Area (3)

-
3. Open the Paper Guide and remove the paper.



Figure 4-49. Clearing Paper from the Input Station Area (4)

4. Open the Paper Guide and remove the paper.



Figure 4-50. Clearing Paper from the Input Station Area (5)

5. Close the Paper Guide.
6. Close the Front Cover (L).
7. Touch “▶” button on the OCP to clear any error messages.

Regist Station Area

If the OCP indicates the paper location as shown below, the paper is remained in the Regist Station area.

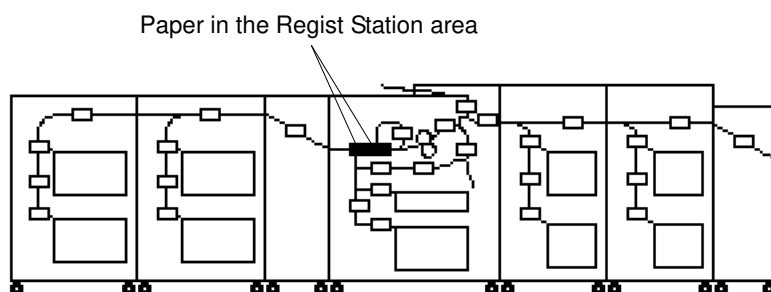


Figure 4-51. Clearing Paper from the Regist Station Area (1)

Follow the steps below to clear paper from the Regist Station area.

1. Open the Front Cover (L).



Figure 4-52. Clearing Paper from the Regist Station Area (2)

2. Rotate the knob to feed the paper.



Figure 4-53. Clearing Paper from the Regist Station Area (3)

-
3. Rotate the knob to feed the paper, and remove the paper.



Figure 4-54. Clearing Paper from the Regist Station Area (4)

4. Close the Front Cover (L).
5. Touch “▶” button on the OCP to clear any error messages.

Paper Feed Area

If the OCP indicates the paper location as shown below, the paper is remained in the paper feed area.

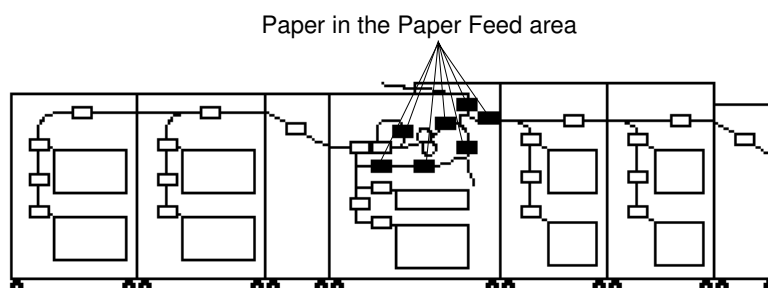


Figure 4-55. Clearing Paper from the Paper Feed Area (1)

Follow the steps below to clear paper from Paper Feed area.

1. Open the Front Cover (R) and Front Cover (L).



Figure 4-56. Clearing Paper from the Paper Feed Area (2)

2. Rotate the knob to open the Transfer Unit.



Figure 4-57. Clearing Paper from the Paper Feed Area (3)

-
3. Rotate the knob to feed the paper.



Figure 4-58. Clearing Paper from the Paper Feed Area (4)

4. Remove the paper.

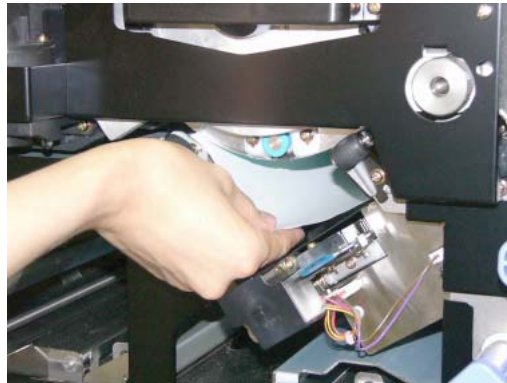


Figure 4-59. Clearing Paper from the Paper Feed Area (5)



CAUTION!

Surface of the Photoconductor Drum (OPC Sheet) is very sensitive. Carefully remove a paper to avoid scratch the surface of the Photoconductor Drum.

5. Rotate the Knob to return the Transfer Unit.

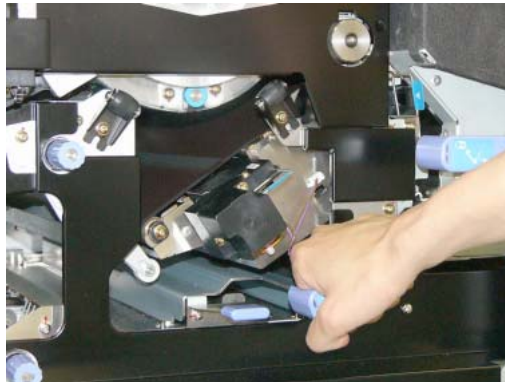


Figure 4-60. Clearing Paper from the Paper Feed Area (6)

-
6. Open the Paper Guide and remove the paper.



Figure 4-61. Clearing Paper from the Paper Feed Area (7)

7. Close the Paper Guide.
8. Hold up the Fuser Latch and pull out the Fuser Unit.

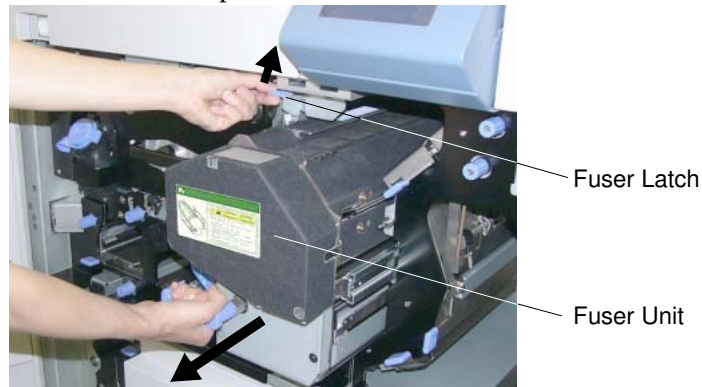


Figure 4-62. Clearing Paper from the Paper Feed Area (8)



CAUTION!

The paper in the Fuser Unit must be removed by step 8 to step 14 when the Fuser Jam is happened. If the paper remains in the Fuser Unit, paper is scorched, or it causes another paper jam, or it causes some mechanical damage.

-
9. Rotate the knob to release the internal roller.



Figure 4-63. Clearing Paper from the Paper Feed Area (9)

10. Pull out the Web Cassette.



Figure 4-64. Clearing Paper from the Paper Feed Area (10)

11. Open the Fuser Unit Cover and Paper Guide.

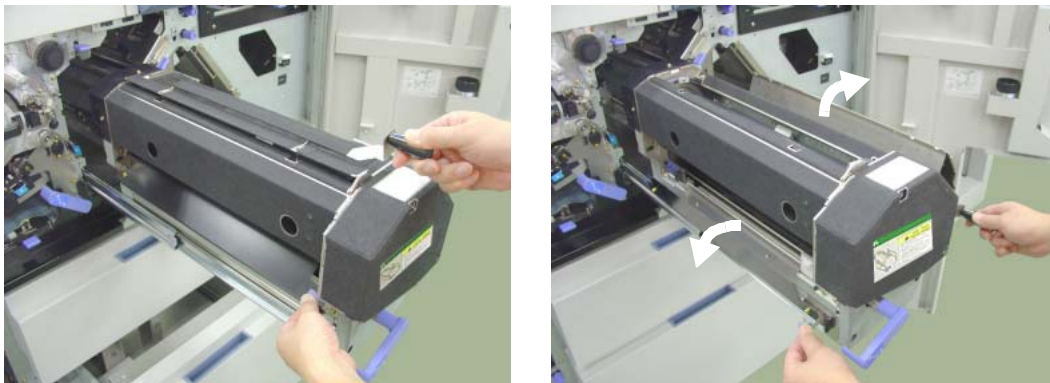


Figure 4-65. Clearing Paper from the Paper Feed Area (11)

-
12. Remove the paper to right directions, and close the Fuser Unit Cover.



Figure 4-66. Clearing Paper from the Paper Feed Area (12)



WARNING!

*The Fuser Unit is very hot. Do not touch any parts of the Fuser Unit except those parts which are used to remove the paper.
It is better to use the Bamboo Tweezers to remove the paper. (The Bamboo Tweezers is an attached accessory.)*

NOTE:

Remove (draw out) the paper from the Fuser horizontally. If the paper was drawn out on an angle, the Heat Roller may be soiled with the toner, and it causes degradation of print quality.

Do not draw out the paper to the left direction. If the paper is drew out to the left direction, the Fuser Web is bloused and it may be twined around the Heat Roll.

-
13. Close the Fuser Unit Cover and Paper Guide, and push back the Web Cassette into the Fuser Unit.



Figure 4-67. Clearing Paper from the Paper Feed Area (13)



CAUTION!

Incompletion of closing the Fuser Unit Cover and the Paper Guide cause damage to the Fuser Unit. Make sure the Fuser Unit Cover and the Paper Guide are completely closed.

14. Rotate the knob to return the internal roller.

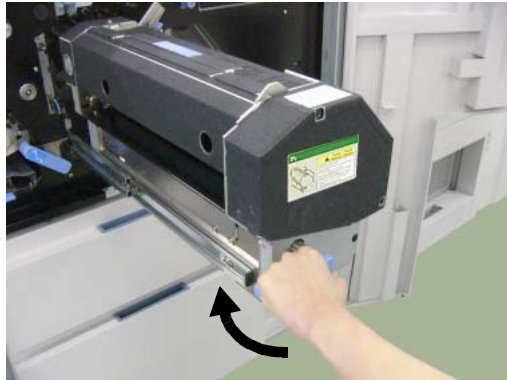


Figure 4-68. Clearing Paper from the Paper Feed Area (14)

15. Push back the Fuser Unit into the printer.



Figure 4-69. Clearing Paper from the Paper Feed Area (15)

-
16. Open the Paper Guide and remove the paper.



Figure 4-70. Clearing Paper from the Paper Feed Area (16)

17. Rotate the knob to feed the paper, and remove the paper.

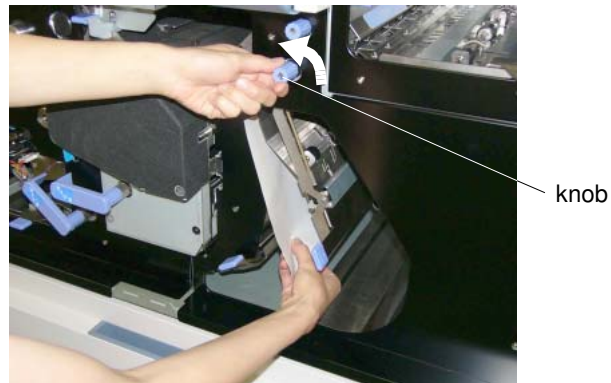


Figure 4-71. Clearing Paper from the Paper Feed Area (17)

18. Close the Paper Guide.

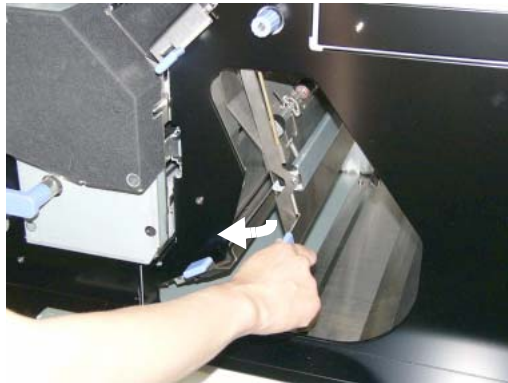


Figure 4-72. Clearing Paper from the Paper Feed Area (18)

-
19. Open the Paper Guide and remove the paper.



Figure 4-73. Clearing Paper from the Paper Feed Area (19)

20. Rotate the knob to feed the paper.



Figure 4-74. Clearing Paper from the Paper Feed Area (20)

21. Open the Paper Guide and remove the paper.



Figure 4-75. Clearing Paper from the Paper Feed Area (21)

-
22. Open the Paper Guide and remove the paper.



Figure 4-76. Clearing Paper from the Paper Feed Area (22)

23. Open the Paper Guide.



Figure 4-77. Clearing Paper from the Paper Feed Area (23)

24. Rotate the knob to feed the paper, and remove the paper.



Figure 4-78. Clearing Paper from the Paper Feed Area (24)

-
25. Close the Paper Guide.



Figure 4-79. Clearing Paper from the Paper Feed Area (25)

26. Open the Paper Guide.



Figure 4-80. Clearing Paper from the Paper Feed Area (26)

27. Remove the paper.



Figure 4-81. Clearing Paper from the Paper Feed Area (27)

-
28. Close the Paper Guide.



Figure 4-82. Clearing Paper from the Paper Feed Area (28)

29. Close the Front Cover (R) and Front Cover (L).
30. Touch “▶” button on the OCP to clear any error messages.

Container Stacker

If the OCP indicates the paper location as shown below, the paper is remained in the Container Stacker.

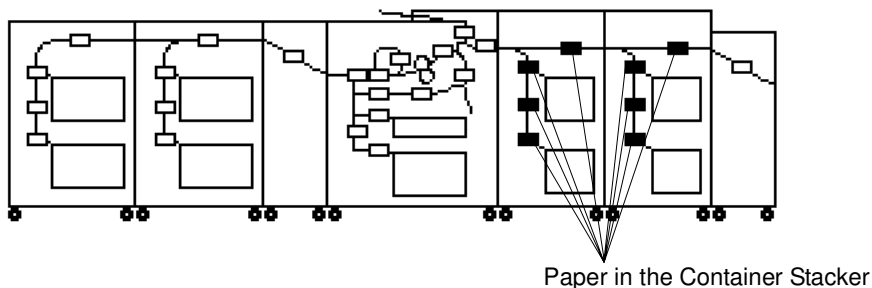


Figure 4-83. Clearing Paper from the Container Stacker (1)

Follow the steps below to clear paper from the Container Stacker.

1. Open the CSx Front Cover L.



Figure 4-84. Clearing Paper from the Container Stacker (2)

2. Rotate the knob to feed the paper.

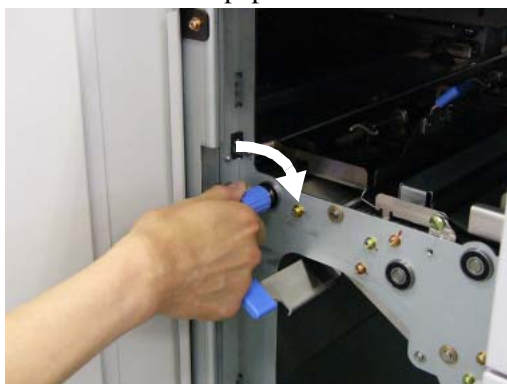


Figure 4-85. Clearing Paper from the Container Stacker (3)

-
3. Open the Paper Guide and remove paper.



Figure 4-86. Clearing Paper from the Container Stacker (4)

4. Open the Paper Guide and remove the paper.

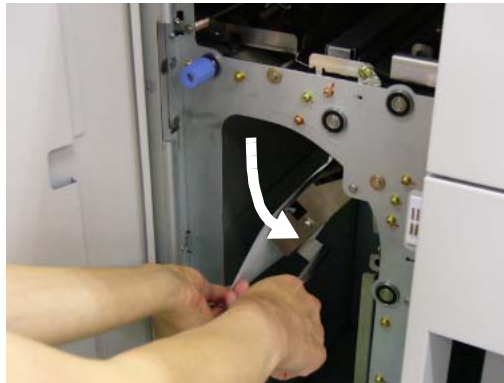


Figure 4-87. Clearing Paper from the Container Stacker (5)

5. Open the Paper Guide and remove the paper.



Figure 4-88. Clearing Paper from the Container Stacker (6)

-
6. Open the Upper Drawer and remove the Basket.



Figure 4-89. Clearing Paper from the Container Stacker (7)

NOTE:

Gently pull out the drawer to prevent collapse of paper stacking.

7. Push back the Drawer into the Stacker.



Figure 4-90. Clearing Paper from the Container Stacker (8)

8. Remove the paper from the stacker.



Figure 4-91. Clearing Paper from the Container Stacker (9)

-
9. Open the Drawer again and set the Basket. Push back the Drawer into the Stacker.



Figure 4-92. Clearing Paper from the Container Stacker (10)

NOTE:

Take the stacked paper out before return the Basket. If the stacked paper is left in the Basket, paper stacking may be collapsed.

10. Pull out the Lower Drawer and remove the Basket.



Figure 4-93. Clearing Paper from the Container Stacker (11)

NOTE:

Gently pull out the drawer to prevent collapse of paper stacking.

-
11. Push back the Drawer into the Stacker. Remove the paper from the Stacker



Figure 4-94. Clearing Paper from the Container Stacker (12)

12. Pull out the Drawer again and set the Basket. Push back the Drawer into the Stacker.



Figure 4-95. Clearing Paper from the Container Stacker (13)

NOTE:

Take the stacked paper out before return the Basket. If the stacked paper is left in the Basket, paper stacking may be collapsed.

-
13. Open the CS1 Front Cover U if the CS2 is installed.



Figure 4-96. Clearing Paper from the Container Stacker (14)

14. Open the Paper Guide and remove the paper.



Figure 4-97. Clearing Paper from the Container Stacker (15)

15. Close the CSx Front Cover L and CS1 Front Cover U.
16. Touch “▶” button on the OCP to clear any error messages.

High Capacity Feeder (HCF)

If the OCP indicates the paper location as shown below, the paper is remained in the High Capacity Feeder (HCF).

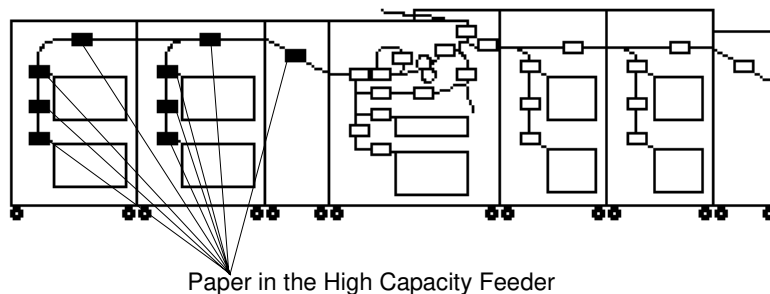


Figure 4-98. Clearing Paper from the High Capacity Feeder (1)

Follow the steps below to clear paper from the High Capacity Feeder (HCF).

1. Open the HCFx Front Cover.



Figure 4-99. Clearing Paper from the High Capacity Feeder (2)

2. Open the Transit Path Paper Guide.



Figure 4-100. Clearing Paper from the High Capacity Feeder (3)

-
3. Remove the jammed paper. Paper along the paper path is automatically ejected.
 4. Close the Transit Path Paper Guide.
 5. Rotate the Knob to feed the paper.



Figure 4-101. Clearing Paper from the High Capacity Feeder (4)

6. Open the Paper Guide and remove the paper.



Figure 4-102. Clearing Paper from the High Capacity Feeder (5)

7. Open the Paper Guide and remove the paper.



Figure 4-103. Clearing Paper from the High Capacity Feeder (6)

-
8. Open the HCFx Top Cover.



Figure 4-104. Clearing Paper from the High Capacity Feeder (7)

9. Open the Paper Guide and remove the paper

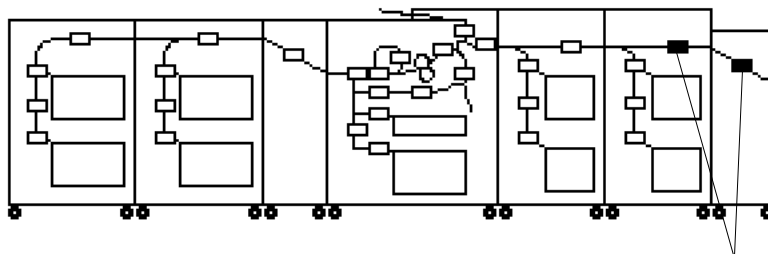


Figure 4-105. Clearing Paper from the High Capacity Feeder (8)

10. Close the HCFx Front Cover and HCFx Top Cover.
11. Touch “▶” button on the OCP to clear any error messages.

Transit Pass Unit Type 156

If the OCP indicates the paper location as shown below, the paper is remained in the Transit Pass Unit 156.



Paper in the Transit Pass Unit Type 156

Figure 4-106. Clearing Paper from the Transit Pass Unit Type 156 (1)

Follow the steps below to clear paper from the Transit Pass Unit Type 156.

1. Open the FTU Front Cover.



Figure 4-107. Clearing Paper from the Transit Pass Unit Type 156 (2)

2. Open the L Paper Guide.



Figure 4-108. Clearing Paper from the Transit Pass Unit Type 156 (3)

-
3. Remove the jammed paper. Paper along the stacker paper path is automatically ejected.
 4. Rotate the Knob to feed the paper.



Figure 4-109. Clearing Paper from the Transit Pass Unit Type 156 (4)

5. Remove the jammed paper.
6. Close the L Paper Guide and the Front Cover.

Cleaning the Printer

In order to maintain print quality, thoroughly clean the printer following the instructions below. When cleaning the printer, pay particular attention to the notes and cautions for safe maintenance.

Following table shows cleaning items and intervals.

Table 4-2. Cleaning Items and Intervals

Cleaning Items	Intervals
Printer Cover	Cleaning as needed
Input Tray	Every day (before starting a daily operation)
Container Basket	Every day (before starting a daily operation)
Toner Bottle Joint	At the each toner supply
Discharger, Detach Corotron	Every day (before starting a daily operation)
Inverter Valve Piece	Every day (before starting a daily operation)
Paper Guide of the Fuser Unit	Every day (before starting a daily operation)
Paper Guide of the Discharger Unit	Every day (before starting a daily operation) and when change to the large paper width.



CAUTION!

Power off the printer prior to cleaning.

Do not use solvent on the printer. Using solvent may dissolve the plastic and paint of the printer.

Do not use cleaning solutions to clean inside and around the printer. Use only a water-moistened cloth.



CAUTION!

For cleaning up toner or developer spillage, use a specially-designed toner-safe vacuum cleaner. If you use a regular vacuum cleaner, the drawn toner/developer powder may scatter in the air. If you inhale or your eyes come into contact with such powder, you may feel sick or injure your eyes. Further, the drawn toner/developer powder may render the vacuum cleaner defective when it enters the vacuum cleaner's motor section.

NOTE:

If the toner gets on your clothes, wipe it off with a dry cloth first and wash the clothes in COLD water. Be careful not to use hot water as it permits the toner to permeate into the fabric. Although the toner is nontoxic, avoid breathing toner particles.

Cleaning the Printer Covers

1. Wipe with a water-moistened, lint-free, soft cloth.
2. Dry with a clean, lint-free soft cloth.

Cleaning Trays

1. Pull out the Tray and remove the paper.
2. Using a toner-safe vacuum cleaner, remove paper dust, dirt, and other foreign matter from the Tray. Ensure that the corners are thoroughly cleaned.



Figure 4-110. Cleaning Trays



CAUTION!

The Paper Height Sensor in the Tray is sensitive. Carefully cleaning a Tray to avoid a damage to the Paper Height Sensor.

3. Load the paper back into the tray and close the Tray.

Cleaning the Container Baskets

1. Pull out the Drawer and remove the Basket. Remove the paper from the Basket.



Figure 4-111. Cleaning the Container Baskets (1)

2. Using a toner-safe vacuum cleaner, remove paper dust, dirt, and other foreign matter from the Basket. Ensure that the corners are thoroughly cleaned.



Figure 4-112. Cleaning the Container Baskets (2)

3. Set the Basket onto the Drawer and push back it into the printer.

Cleaning the Toner Bottle Joint

1. Open the Toner Supply Cover.
2. Clean inside the Toner Supply Cover by wiping any visible toner away with a dry, lint-free cloth.

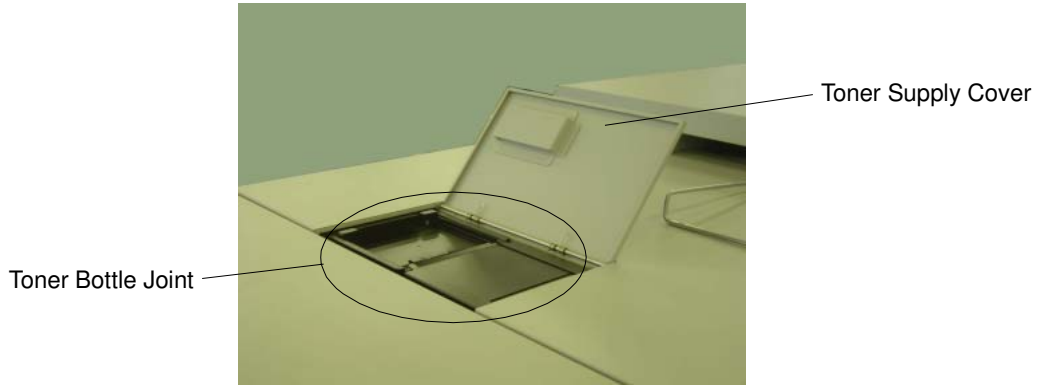


Figure 4-113. Cleaning the Toner Bottle Joint

3. Close the Toner Supply Cover.

Cleaning the Discharger and the Detach Corotron

1. Open the Front Cover (R) and Front Cover (L).



Figure 4-114. Cleaning the Discharger and the Detach Corotron (1)

2. Pull out and push back the DC Cleaning Bar and the Cleaning Bar (TR) several times to clean the Discharger and the Detach Corotron.

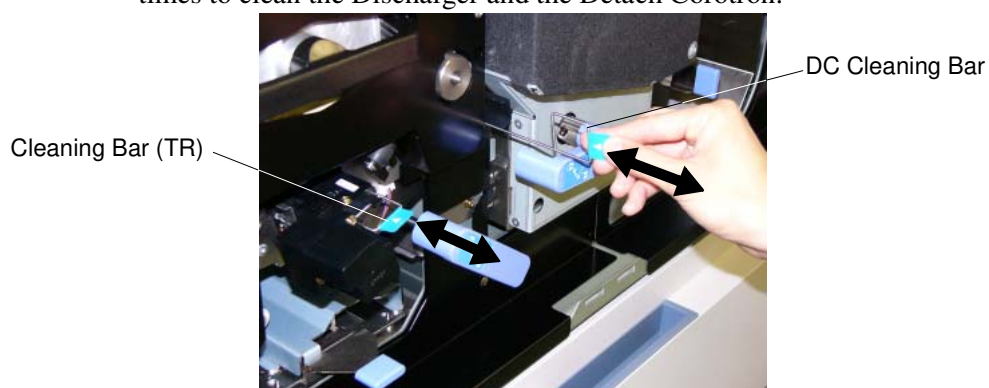


Figure 4-115. Cleaning the Discharger and the Detach Corotron (2)

3. Push back the DC Cleaning Bar and Cleaning Bar (TR) to original position.
4. Close the Front Cover (R) and Front Cover (L).

Clearing the Inverter Valve Piece

1. Open the Front Cover (R).



Figure 4-116. Cleaning the Inverter Valve Piece (1)

2. Open the Paper Guide.



Figure 4-117. Cleaning the Inverter Valve Piece (2)

3. Clean the top of Inverter Valve Piece by wiping any toner with a Lint-free soft cloth.



Figure 4-118. Cleaning the Inverter Valve Piece (3)

-
4. Close the Paper Guide.



Figure 4-119. Cleaning the Inverter Valve Piece (4)

5. Close the Front Cover (R).

Cleaning the paper guide of the Fuser Unit

1. Open the Front Cover (R) and Front Cover (L).



Figure 4-120. Cleaning the paper guide of the Fuser Unit (1)

2. Hold up the Fuser Latch and pull out the Fuser Unit.

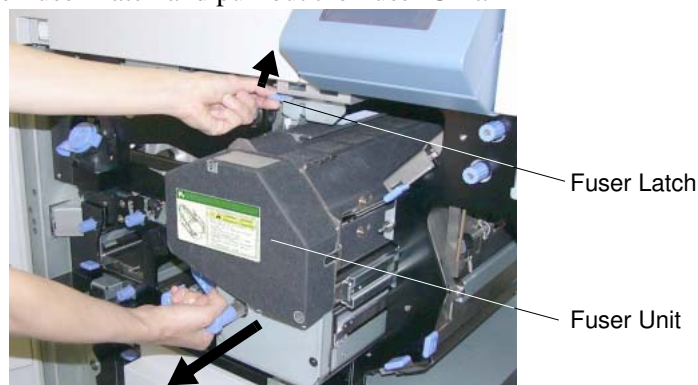


Figure 4-121. Cleaning the paper guide of the Fuser Unit (2)

3. Open the Paper Guide-in Assembly of the Fuser Unit and clean it by wiping any toner with a Lint-free soft cloth.



Figure 4-122. Cleaning the paper guide of the Fuser Unit (3)

4. Close the Paper Guide-in Assembly of the Fuser Unit.
5. Open the Top Cover Assembly of the Fuser Unit.

-
6. Clean the BR paper Guide Assembly and the HR Paper Guide Assembly by wiping any toner with a Lint-free soft cloth.



Figure 4-123. Cleaning the paper guide of the Fuser Unit (4)

7. Close the Top Cover Assembly of the Fuser Unit.
8. Push back the Fuser Unit into the printer.



Figure 4-124. Cleaning the paper guide of the Fuser Unit (5)

9. Close the Front Cover(R) and Front Cover (L).

Cleaning the paper guide of the Discharger Unit

1. Open the Front Cover (R) and Front Cover (L).



Figure 4-125. Cleaning the paper guide of the Discharger Unit (1)

2. Hold up the Fuser Latch and pull out the Fuser Unit.

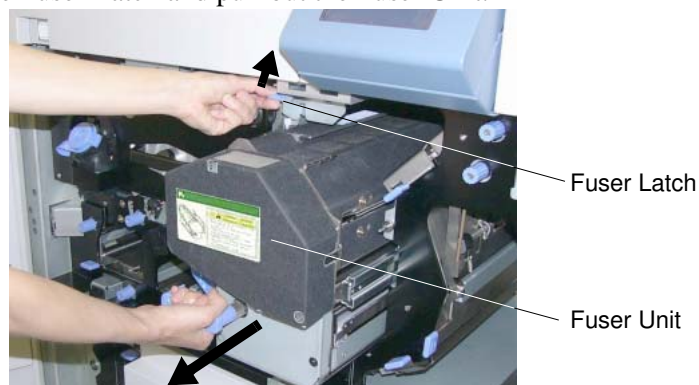


Figure 4-126. Cleaning the paper guide of the Discharger Unit (2)

3. Clean the paper guide of the Discharger Unit by wiping any toner with a Lint-free soft cloth.

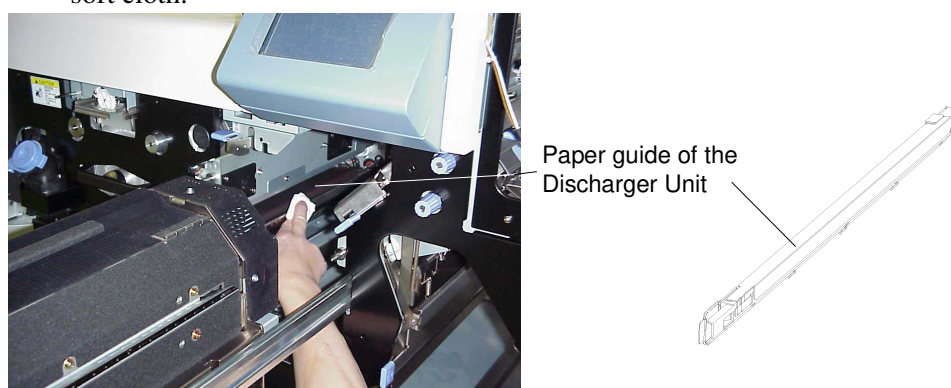


Figure 4-127. Cleaning the paper guide of the Discharger Unit (3)

-
4. Push back the Fuser Unit into the printer.



Figure 4-128. Cleaning the paper guide of the Discharger Unit (4)

5. Close the Front Cover(R) and Front Cover (L).

Handling and Storing Supplies and Consumables

Paper

Proper handling and storing of paper are important to optimize the performance of the printer. For best results, follow the instructions below.

When Loading

- Be careful not to damage, crease, or fold paper when handling.
- Eliminate any damaged paper before loading paper into the tray.
- Do not load different types of paper into the same tray.
- Remove any paper previously loaded in the tray when loading new paper. Do not put new paper on the paper formerly loaded in the tray.

When Storing

- Wrap the remaining paper to keep the proper moisture content.
- Store the wrapped paper in an air-conditioned room. There should not be a significant temperature difference between a paper storage environment and a printer operating environment. It may cause paper jams.

When Paper Jams Frequently Occur

- Replace the paper. Even if paper brands are same, characteristics may be slightly different due to different environmental storage conditions.
- Turn over the paper in the tray. This should not be applied when using paper whose front side or back side is prearranged such as letterhead forms.

Toner and Developer

Proper handling and storage of the toner bottle and developer bottle are important to optimize printer performance. For best results, follow the instructions below.

When Purchasing

- Use only toner and developer which are specified for the printer. Print quality may be degraded and troubles may occur if using toner and developer that does not meet the specification.
- Store the toner bottle and developer bottle in a well air-conditioned place. If the temperature is over 104°F (40°C), the toner and developer may solidify. The recommended storing temperature is 14°F - 104°F (-10°C~40°C). The recommended relative humidity is 5% to 80%. Do not store for longer than 3 years after the date of manufacture.
- Do not expose developer to the air. If exposed, developer may rust and degrade printing quality.

Blank

Chapter 5

Troubleshooting

What This Chapter Provides

This contains the following information.

- [Guidelines Flowchart](#)
- [Basic Troubleshooting Tips](#)
- [General Printing Problems](#)
- [Print Quality Problems](#)
- [Duplex Printing Problems](#)
- [OCP Display Messages](#)

NOTE:

The following sections provide troubleshooting guidelines. If you are still unable to resolve a problem, contact your authorized service technician.

Guidelines Flowchart

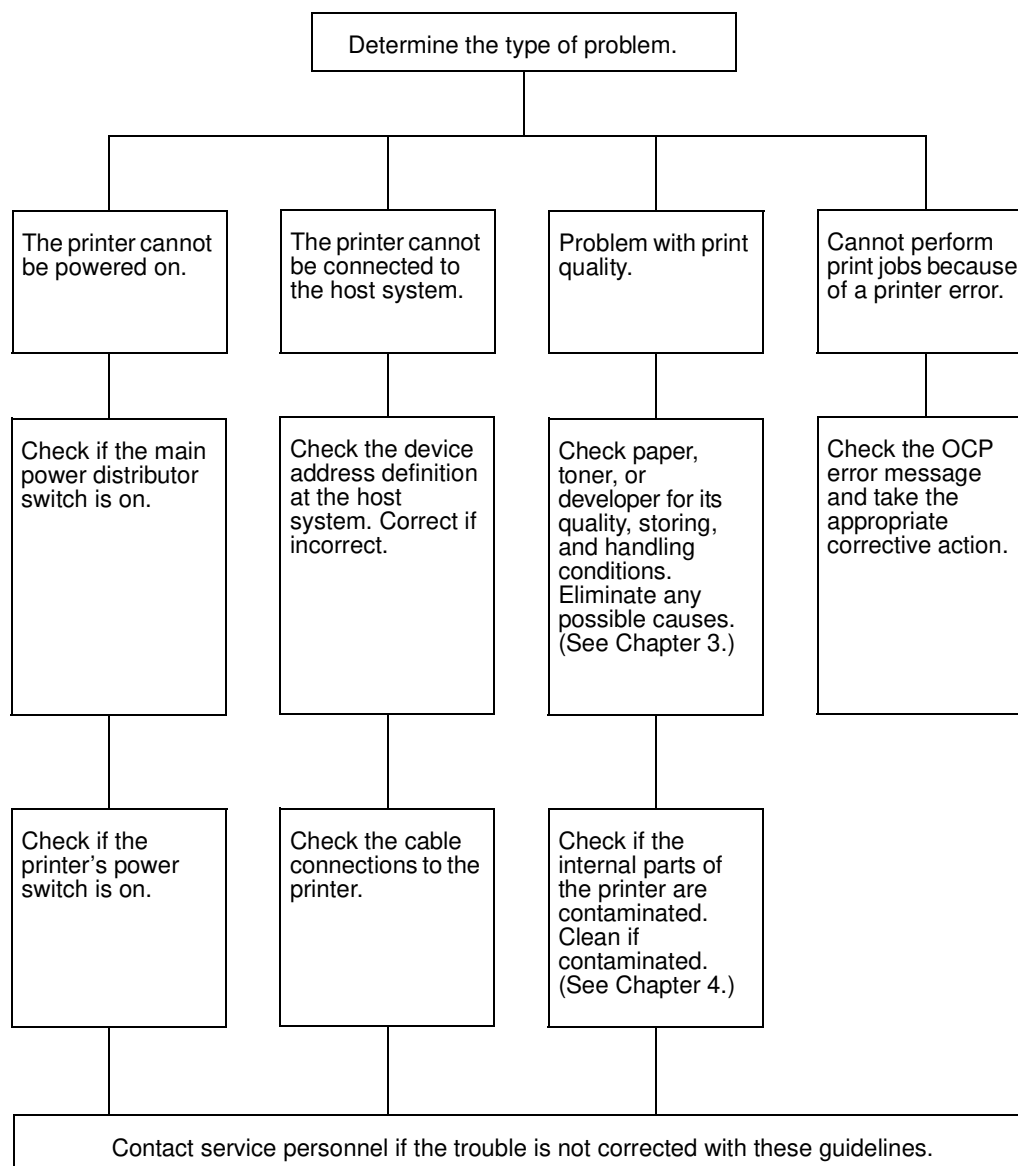


Figure 5-1. Guidelines Flowchart

Basic Troubleshooting Tips

The following are some common situations that can cause a variety of problems. Before you look for a specific problem use the tips in this list.

- Check the power and all cables to the printer.
- Check the printer OCP for information.
- If possible, print the Status Page from the Reports menu and verify that the settings match your configuration.
- Check the current status of the printer.
 - The current status appears on the OCP.
 - If the printer is processing your job, the status message reflects this.
 - If your print job does not appear in the status message, another user's job may be printing before yours or the printer may already have finished printing your job.
 - If your job is waiting to print, it appears in the list for the print queue.

General Printing Problems

Table 5-1. General Printing Problems

If this happens	Try this
<p>Paper Jam in Tray: E1A0, E1A1, E1A2, E1A3, E1A4, E1A5, E1A6, E1A7, E1A8, E1A9, E1AA, E1AB, E1AF, E1B0, E1B1, E1B2, E1B3, E1B4</p> <p>Double Feed Jam: E150, E151, E152, E153, E154, E155, E156, E157, E15A, E15B, E15C, E15D</p>	<ul style="list-style-type: none"> • Clean the Tray (refer to “Cleaning Trays” on page 4-54). • Set the paper and the Paper Guide in the Tray to correct position. • Turn the paper set in the Tray upside down. • Remove the deformed paper from the Tray if the paper in the Tray has any deformation such as curl, waving, or folding. • Replace the paper set in the Tray to new one if the paper contains moisture (refer to “Moisture” on page B-5). • Confirm the Paper Weight setting is correct (refer to “Setting the Paper Weight Value” on page 3-19). • Try to change the Table Adjust setting of the Tray (refer to “Setting the Table Adjust” on page 3-23).
<p>Dram Wrap: E17A, E17B</p>	<ul style="list-style-type: none"> • Clean the Discharger/Detach Colotron (refer to “Cleaning the Discharger and the Detach Corotron” on page 4-57). • Turn the paper set in the Tray upside down. • Remove the deformed paper from the Tray if the paper in the Tray has any deformation such as curl, waving, folding or burries. • Replace the paper set in the Tray to new one if the paper contains moisture (refer to “Moisture” on page B-5). • Confirm the Paper Weight setting is correct (refer to “Setting the Paper Weight Value” on page 3-19). • Try to change the Paper Moisture setting to the Tray (refer to “Setting the Paper Moisture” on page 3-25).
<p>Paper Jam other than described above, or Paper Skew</p>	<ul style="list-style-type: none"> • Clean the Tray (refer to “Cleaning Trays” on page 4-54). • Set the paper and the Paper Guide in the Tray to correct position. • Turn the paper set in the Tray upside down. • Clean the Discharger/Detach Colotron (refer to “Cleaning the Discharger and the Detach Corotron” on page 4-57). • Turn the paper set in the Tray upside down. • Remove the deformed paper from the Tray if the paper in the Tray has any deformation such as curl, waving, or folding. • Replace the paper set in the Tray to new one if the paper contains moisture (refer to “Moisture” on page B-5). • Confirm the Paper Weight setting is correct (refer to “Setting the Paper Weight Value” on page 3-19). • Try to change the stacking level if the stacker jam is caused by the deformation of stacked paper (refer to “Paper Output” on page 2-9).
<p>Paper Height Error: E0BB, E0BD, E0BF, E0C1, E0C3, E0C5</p>	<ul style="list-style-type: none"> • Clean the Tray (refer to “Cleaning Trays” on page 4-54). • Set the paper and the Paper Guide in the Tray to correct position. • Remove the deformed paper from the Tray if the paper in the Tray has any deformation such as curl, waving, or folding. • Replace the paper set in the Tray to new one if the paper contains moisture (refer to “Moisture” on page B-5).

Table 5-1. General Printing Problems

If this happens	Try this
Printer does not respond to a print command	<ul style="list-style-type: none">• Try printing a Status Page from the Reports menu. If you are able to print the Status Page but still cannot print a file from your computer, contact your system administrator or your authorized service/support center.• Verify that you printed to the correct queue.• If you are still unable to print, contact your system administrator.
Message requests a paper size that you do not have	<ul style="list-style-type: none">• Do following steps.<ol style="list-style-type: none">1. Cancel the job.2. Change the page size in the Print option of your application.3. Resubmit the job.
Status Page does not print	<ul style="list-style-type: none">• If the OCP shows a diagnostic or error message, take the appropriate corrective action.• If the OCP is completely blank, shut down and restart the printer. When the printer reaches Ready status, try printing a Status Page from the Reports menu. If the Status Page still fails to print, contact your authorized service/support center.
Print settings for your job output do not match the settings you gave	<ul style="list-style-type: none">• Verify that you did not override the setting for job in another place.
PostScript error is detected	<ul style="list-style-type: none">• Check the PostScript job data.• If the "limitcheck" error is detected in the job using Global VM after many jobs using Global VM are printed, once clear the Global VM by the job.
Following message is appeared on the OCP. <ul style="list-style-type: none">• Spool directory is full• Job to big - data flushed• Insufficient Disk SpaceOne Copy Job	<ul style="list-style-type: none">• Wait until all of previous spooled job are printed, and resend the job.• Divide the job or reduce the amount of job data (acceptable amount of job data is up to 2GB).

Print Quality Problems

Table 5-2. Print Quality Problems

If this happens	Try this
Pages have toner contaminates (Back side contaminate, Trailing edge contaminate)	Clean the printer as described in Chapter 4.

Duplex Printing Problems

Table 5-3. Duplex Printing Problems

If this happens	Try this
Duplex pages print upside down	Change the Duplex print option that specifies how the second image is placed relative to the first image.

Printer Notice

Followings are consideration matter when using this printer.

■ Printing Speed Down

Printing speed may be reduced when following conditions.

- ☐ Printing of complex job.
- ☐ Printing a job with job offset.
- ☐ Printing a jog with switching the input trays.
- ☐ Printing a job with high moisture paper under the condition of low voltage and low room temperature.
- ☐ Continuous printing with high toner coverage (over 25% coverage).
- ☐ After clearing the engine error (Paper Jam, etc.).
- ☐ Printing a PostScript job after many PostScript job using Global VM is printed.

■ IPP Printing

IPP printing cannot be used if the print job is sent from WindowsXP via the Multi-protocol NIC option port.

■ Offset Stacking

Offset stacking is not worked when the paper length is longer than 431.8mm (17 inches).

■ “Prior Pick Mode” of the HCF Tray Control

There are some limitations when you use the printer in the “Prior Pick Mode”.

- ☐ If you use the auto cascading of the Input Tray, printer can only cascade the tray to vertical direction. Therefore, you can set the same paper for cascading to following tray combinations only.
 - Tray 1 and Tray 2
 - HCF1 Lower and HCF1 Upper
 - HCF2 Lower and HCF2 Upper
- ☐ In this mode, a few paper might remain on the paper path in the HCF when the printer is stopped by paper empty.

Normally, these papers are used for next printing, but if following condition is occurred, these papers in the HCF need to be removed.

 - Job is not completed by canceling a job.
 - HCF Front Cover or HCF Top Cover is opened.
 - The Down Switch of the Tray which supplied remaining papers is pressed for open the Tray. (The Tray which supplied remaining papers cannot be opened unless the Down Switch is pressed.)

- “Sample” button or “Auto Proof Sample” function

Do not use the “Sample” button or the “Auto Proof Sample” function when using the page number predetermined paper.

- MOP and Reverse Page Order Limits

The standard of the printing number of pages restrictions at the time of MOP (Multiple Original Printing) and Reverse Page Order is as follows.

However, following printing number of pages may change depending on actual printing environment.

Table 5-4. Printing number of pages of MOP and Reverse Page Order

Paper Size	Number of Pages	
	Duplex	Simplex
B5	3000	1500
Letter/A4	3000	1500
B4	2000	1500
Ledger/A3	2000	1500

- Accounting Slip Sheet

Client IP Address, Client Network Name, User Name, Document Name, Department Name and Charge Code are not printed on the Accounting Slip Sheet when the print job is sent from printer driver. (User Name and Document Name may be printed if the LPR protocol is used.)

- When using Transit Pass Unit Type156 and Finisher

- When an image such as bold lines, etc., are printed on one side of the folded centermost sheet, and the other side of the page is blank, the bold lines, etc., may be slightly transferred to the blank page (ghost-print). When using the finisher, please confirm by printing one set in beforehand. Please lower the print density of the printer if ghost-print occurs.
- When stitching more than 20 sheets of 75g/m2 (20lbs.) or less paper at the top / side / corner, paper edge alignment may be uneven at the stitched corner, leading to paper jams. It is recommended to use 75g/m2 (20lbs.) or heavier paper.

OCP Display Messages

The OCP displays the printer status with 1- to 2-line messages that appear on the LCD screen. There are three types of messages: status, warning, and error messages. The following tables lists the messages. Each message is explained and a corrective action is given when applicable.

Printer Status Message

Following table shows printer status messages.

Table 5-5. Printer Status Messages

Message	Description	Corrective Action
Ready	The printer has warmed up and initialized and is idle while waiting for data.	None.
Pause/Offline	The printer was taken offline.	Touch ► to return to Ready status.
Printing xxx / yyy	Status message. Displays the number of copies printed / the number of copies requested.	Wait for the printer to return to a Ready state.
Printing	Status message. The printer is printing job.	Wait for the printer to return to a Ready state.
Processing	Status message. The printer is processing print job data.	Wait for the printer to return to a Ready state.
Wait	Status message.	Wait for the printer to return to a Ready state.
Waiting for data	Status message. May appear if: 1) a large file is being processed, 2) the network connection is slow, or 3) a print job was not terminated correctly.	Wait for the printer to return to Ready state.
AppleTalk busy	Status message. The printer is receiving print job data via AppleTalk.	Wait for the printer to return to Ready state.
Warming up	Status message. Displayed during the power up cycle.	Wait for the printer to reach a Ready state.
Loading Network	Status message. Network control is loading.	Wait for the printer to reach a Ready state.
Enter new password	Passwords are for use by System Administrator and Service Technicians only.	Contact your System Administrator for additional information.
Enter new password again	Passwords are for use by System Administrator and Service Technicians only.	Contact your System Administrator for additional information.
Enter service password	You must provide the service password to gain access to the selected menu item.	Contact your System Administrator if you need access to menu items that are password protected.
Enter system password	You must provide the system password to gain access to the selected menu item.	Contact your System Administrator if you need access to menu items that are password protected.

Table 5-5. Printer Status Messages

Message	Description	Corrective Action
Paper Out <i>Tray Name</i>	The specified paper tray is out of paper	Load paper into the Tray.
<i>Tray Name</i> Active	Displayed during printing.	None
Input Keycode	A valid keycode is required to activate this feature.	Contact your System Administrator or authorized Service Technician.
Resetting	Status message. The printer is resetting the configuration.	Wait for the printer to return to Ready state.
Sleep Mode	The Energy Save time has been reached and the printer is in energy saving mode.	Touch the OCP to initialize the printer.
Duplex Always	Duplex-Always mode is enabled.	Contact your System Administrator for more information.
Spooling	The printer is spooling print data.	None
Preserving Parameters	The printer is saving user settings.	None
Deleting Jobs	Status Message. The selected jobs are being deleted from the print queue.	Wait for the printer to return to Ready state.
Spool directory is full	The disk space for LPD/RawTCP (Spool) is insufficient.	Refer to “General Printing Problems” on page 5-4.
Job too big - Data flushed	The disk space for RawTCP (spool) is insufficient	Refer to “General Printing Problems” on page 5-4.
Insufficient Disk Space One Copy Job	Since the capacity of a hard disk space is insufficient for MOP (Multiple Original Printing). Only one copy is printed.	Refer to “General Printing Problems” on page 5-4. and “Printer Notice” on page 5-7.

Printer Warning Message

Following table shows printer warning messages.

Table 5-6. Printer Warning Messages

Message	Description	Corrective Action
Network Load Failed	Network connection error.	Check the Ethernet cable of the NIC.
Invalid password	A valid password is required to access this area of the OCP.	Retry password. If incorrect, contact your System Administrator.
Invalid value	Incorrect value entered.	Re-enter value.
Invalid Time Server Address	Incorrect value in time server IP address field.	Check the time server IP address via the Web Utilities.
PM Counter Exceeded	Printer exceeds a preventive maintenance period. Preventive maintenance is required.	Contact your authorized Service Technician.
PM Counter Warning	Printer reaches a defined Preventive Maintenance Warning period.	Contact your authorized Service Technician.

Printer Error Message

Following table shows printer error messages.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Suspended Task	There is processing which execution has suspended.	Touch ► to return to Ready status.
Call for Service Exxx or <i>other text</i>	Any "Call for Service" message requires a service call for problem resolution. Line 2 is the error code.	Contact your authorized Service Technician and provide the error code displayed on the OCP.
Paper Out Tray 1 Load xxx E001	Tray 1 is out of paper. xxx is the paper size.	Load the requested paper in Tray 1.
Paper Out Tray 2 Load xxx E002	Tray 2 is out of paper. xxx is the paper size.	Load the requested paper in Tray 2.
Paper Out HCF1 Lower Load xxx E003	HCF1 Lower is out of paper. xxx is the paper size.	Load the requested paper in HCF1 Lower.
Paper Out HCF1 Upper Load xxx E004	HCF1 Upper is out of paper. xxx is the paper size.	Load the requested paper in HCF1 Upper.
Paper Out HCF2 Lower Load xxx E005	HCF2 Lower is out of paper. xxx is the paper size.	Load the requested paper in HCF2 Lower.
Paper Out HCF2 Upper Load xxx E006	HCF2 Upper is out of paper. xxx is the paper size.	Load the requested paper in HCF2 Upper.
CS1 Lower Paper Full Remove Paper E00A	CS1 Lower is full.	Remove the paper from CS1 Lower.
CS1 Upper Paper Full Remove Paper E00B	CS1 Upper is full.	Remove the paper from CS1 Upper.
CS2 Lower Paper Full Remove Paper E00C	CS2 Lower is full.	Remove the paper from CS2 Lower.
CS2 Upper Paper Full Remove Paper E00D	CS2 Upper is full.	Remove the paper from CS2 Upper.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Sample Tray Full Remove Paper E010	Sample Tray is full.	Remove the paper from Sample Tray.
Post Device Full Remove Paper E011	Post Device is full.	Remove the paper from Post Device.
Toner Bag Full Replace Toner Bag E012	Toner Bag is full.	Replace the Toner Bag.
Toner Low Add Toner E013	Print quality will diminish until toner is replenished.	Supply toner.
Developer Mix End of Life Replace Developer E018	Developer Mixture needs to be exchanged.	Replace Developer. Printing will resume when the developer is replaced.
OPC Sheet End of Life Wind OPC Sheet E01D	OPC sheet needs to be winded.	Wind OPC sheet.
Fuser Web End of Life Replace Fuser Web E01E	Fuser Cleaning Web needs to be replaced.	Replace Fuser Cleaning Web.
HR End of Life Replace HR E01F	Heat Roll needs to be replaced.	Contact your authorized Service Technician.
OPC Near End Replace OPC E021	OPC Sheet needs to be replaced.	Contact your authorized Service Technician.
OPC End Replace OPC E022	OPC Sheet needs to be replaced.	Contact your authorized Service Technician.
BR End of Life Replace BR E027	Backup Roll needs to be replaced.	Contact your authorized Service Technician.
Cleaner Blush End of Life Replace Cleaner Blush E028	Cleaner Blush needs to be replaced.	Contact your authorized Service Technician.
Transfer Belt End of Life Replace Transfer Belt E029	Transfer Belt needs to be replaced.	Contact your authorized Service Technician.
Fine Filter End of Life Replace Fine Filter E02A	Fine Filter needs to be replaced.	Replace Fine Filter.
Toner Bag Not Set Set Toner Bag E030	Toner Bag is not seated properly.	Reseat the Toner Bag.
Developer Bottle Set Remove Developer Bottle E031	Developer Bottle is still seated.	Remove the Developer Bottle.
Developer Bottle Not Set Set Developer Bottle E036	Developer Bottle is not seated properly.	Reseat the Developer Bottle.
Fine Filter Not Set Set Fine Filter E03C	Fine Filter is not seated properly.	Reseat the Fine Filter.
Tray 1 Open Close Tray E040	Tray 1 is opened.	Close the Tray 1.
Tray 2 Open Close Tray E041	Tray 2 is opened.	Close the Tray 2.
HCF1 Lower Open Close Tray E042	HCF1 Lower is opened.	Close the HCF1 Lower.
HCF1 Upper Open Close Tray E043	HCF1 Upper is opened.	Close the HCF1 Upper.
HCF2 Lower Open Close Tray E045	HCF2 Lower is opened.	Close the HCF2 Lower.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
HCF2 Upper Open Close Tray E046	HCF2 Upper is opened.	Close the HCF2 Upper.
CS1 Lower Open Close Tray E048	CS1 Lower is opened.	Close the CS1 Lower.
CS1 Lower Basket Not Set Set Basket E049	CS1 Lower Basket is not set.	Set the CS1 Lower Basket.
CS1 Upper Open Close Tray E04A	CS1 Upper is opened.	Close the CS1 Upper.
CS1 Upper Basket Not Set Set Basket E04B	CS1 Upper Basket is not set.	Set the CS1 Upper Basket.
CS2 Lower Open Close Tray E04C	CS2 Lower is opened.	Close the CS2 Lower.
CS2 Lower Basket Not Set Set Basket E04D	CS2 Lower Basket is not set.	Set the CS2 Lower Basket.
CS2 Upper Open Close Tray E04E	CS2 Upper is opened.	Close the CS2 Upper.
CS2 Upper Basket Not Set Set Basket E04F	CS2 Upper Basket is not set.	Set the CS2 Upper Basket.
Front Cover Open Close Cover E054	Front Cover is opened.	Close the Front Cover.
Regist Cover Open Close Cover E055	Regist Cover is opened.	Close the Regist Cover.
Flip Paper Guide Open Close Cover E056	Flip Paper Guide is opened.	Close the Flip Paper Guide.
Air System Open Close Cover E057	Air System is opened.	Contact your authorized Service Technician.
Transit Path Front Cover Open Close Cover E058	Transit Path Front Cover is opened.	Close the Transit Path Front Cover.
HCF1 Front Cover Open Close Cover E059	HCF1 Front Cover is opened.	Close the HCF1 Front Cover.
HCF1 Top Cover Open Close Cover E05A	HCF1 Top Cover is opened.	Close the HCF1 Top Cover.
HCF2 Front Cover Open Close Cover E05B	HCF2 Front Cover is opened.	Close the HCF2 Front Cover.
HCF2 Top Cover Open Close Cover E05C	HCF2 Top Cover is opened.	Close the HCF2 Top Cover.
Transit Path Paper Guide Open Close Cover E05D	Transit Path Paper Guide is opened.	Close the Transit Path Paper Guide.
CS1 Front Cover L Open Close Cover E060	CS1 Front Cover L is opened.	Close the CS1 Front Cover L.
CS1 Front Cover U Open Close Cover E061	CS1 Front Cover U is opened.	Close the CS1 Front Cover U.
CS2 Front Cover L Open Close Cover E062	CS2 Front Cover L is opened.	Close the CS2 Front Cover L.
CS2 Front Cover U Open Close Cover E063	CS2 Front Cover U is opened.	Close the CS2 Front Cover U.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
FTU Front Cover Open Close Cover E064	FTU Front Cover is opened.	Close the FTU Front Cover.
FTU Paper Guide Open Close Cover E065	FTU Paper Guide is opened.	Close the FTU Paper Guide.
Post Device Not Ready E067	Post Device is not ready.	Turn the Post Device to ready.
Paper in HCF1 Lower Remove Paper E068	Paper is remained in HCF1 Lower.	Remove the remained paper.
Paper in HCF1 Upper Remove Paper E069	Paper is remained in HCF1 Upper.	Remove the remained paper.
Paper in HCF2 Lower Remove Paper E06B	Paper is remained in HCF2 Lower.	Remove the remained paper.
Paper in HCF2 Upper Remove Paper E06C	Paper is remained in HCF2 Upper.	Remove the remained paper.
Paper in Tray 1 Remove Paper E06E	Paper is remained in Tray 1.	Remove the remained paper.
Paper in Tray 2 Remove Paper E06F	Paper is remained in Tray 2.	Remove the remained paper.
Paper in Input Station Remove Paper E070	Paper is remained in Input Station.	Remove the remained paper.
Paper in P Top Remove Paper E071	Paper is remained on the P Top Sensor.	Remove the remained paper.
Paper in CCD1 Remove Paper E072	Paper is remained on the CCD1 Sensor.	Remove the remained paper.
Paper in CCD2 Remove Paper E073	Paper is remained on the CCD2 Sensor.	Remove the remained paper.
Paper in Timing Remove Paper E074	Paper is remained on the Timing Sensor.	Remove the remained paper.
Paper in Input Station Remove Paper E075	Paper is remained in Input Station.	Remove the remained paper.
Paper in Input Station Remove Paper E076	Paper is remained in Input Station.	Remove the remained paper.
Paper in Drum Remove Paper E077	Paper is remained on Dram.	Remove the remained paper.
Paper in Heat Roll Remove Paper E078	Paper is remained on Heat Roll.	Remove the remained paper.
Paper in Heat Roll Remove Paper E079	Paper is remained on Heat Roll.	Remove the remained paper.
Paper in Heat Roll Remove Paper E07A	Paper is remained on Heat Roll.	Remove the remained paper.
Paper in Flip Path Remove Paper E07B	Paper is remained in Flip Path.	Remove the remained paper.
Paper in Paper Exit Remove Paper E07C	Paper is remained in Paper Exit.	Remove the remained paper.
Paper in Paper Exit Remove Paper E07D	Paper is remained in Paper Exit.	Remove the remained paper.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper in Switch Back Remove Paper E07E	Paper is remained in Switch Back.	Remove the remained paper.
Paper in Duplex Path Remove Paper E080	Paper is remained in Duplex Path.	Remove the remained paper.
Paper in Duplex Path Remove Paper E081	Paper is remained in Duplex Path.	Remove the remained paper.
Paper in Return Timing Remove Paper E082	Paper is remained on the Return Timing Sensor.	Remove the remained paper.
Paper in HCF1 ISV Remove Paper E089	Paper is remained on the HCF1 ISV Sensor.	Remove the remained paper.
Paper in HCF1 ISH Remove Paper E08A	Paper is remained on the HCF1 ISH Sensor.	Remove the remained paper.
Paper in HCF1 OUT Remove Paper E08B	Paper is remained on the HCF1 OUT Sensor.	Remove the remained paper.
Paper in HCF1 IN Remove Paper E08C	Paper is remained on the HCF1 IN Sensor.	Remove the remained paper.
Paper in HCF2 ISV Remove Paper E08D	Paper is remained on the HCF2 ISV Sensor.	Remove the remained paper.
Paper in HCF2 ISH Remove Paper E08E	Paper is remained on the HCF2 ISH Sensor.	Remove the remained paper.
Paper in HCF2 OUT Remove Paper E08F	Paper is remained on the HCF2 OUT Sensor.	Remove the remained paper.
Paper in HCF2 IN Remove Paper E090	Paper is remained on the HCF2 IN Sensor.	Remove the remained paper.
Paper in HCF Transit Path Remove Paper E091	Paper is remained in the HCF Transit Path.	Remove the remained paper.
Paper in HCF Transit Path Remove Paper E092	Paper is remained in the HCF Transit Path.	Remove the remained paper.
Paper in CS1 Path 1 Remove Paper E0A2	Paper is remained in the CS1 Path 1.	Remove the remained paper.
Paper in CS1 Path 2 Remove Paper E0A3	Paper is remained in the CS1 Path 2.	Remove the remained paper.
Paper in CS1 Path 3 Remove Paper E0A4	Paper is remained in the CS1 Path 3.	Remove the remained paper.
Paper in CS1 Path 4 Remove Paper E0A5	Paper is remained in the CS1 Path 4.	Remove the remained paper.
Paper in CS1 Path 5 Remove Paper E0A6	Paper is remained in the CS1 Path 5.	Remove the remained paper.
Paper in CS1 Path 6 Remove Paper E0A7	Paper is remained in the CS1 Path 6.	Remove the remained paper.
Paper in CS1 Lower Remove Paper E0A8	Paper is remained in the CS1 Lower.	Remove the remained paper.
Paper in CS1 Upper Remove Paper E0A9	Paper is remained in the CS1 Upper.	Remove the remained paper.
Paper in CS2 Path 1 Remove Paper E0AA	Paper is remained in the CS2 Path 1.	Remove the remained paper.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper in CS2 Path 2 Remove Paper E0AB	Paper is remained in the CS2 Path 2.	Remove the remained paper.
Paper in CS2 Path 3 Remove Paper E0AC	Paper is remained in the CS2 Path 3.	Remove the remained paper.
Paper in CS2 Path 4 Remove Paper E0AD	Paper is remained in the CS2 Path 4.	Remove the remained paper.
Paper in CS2 Path 5 Remove Paper E0AE	Paper is remained in the CS2 Path 5.	Remove the remained paper.
Paper in CS2 Path 6 Remove Paper E0AF	Paper is remained in the CS2 Path 6.	Remove the remained paper.
Paper in CS2 Lower Remove Paper E0B0	Paper is remained in the CS2 Lower.	Remove the remained paper.
Paper in CS2 Upper Remove Paper E0B1	Paper is remained in the CS2 Upper.	Remove the remained paper.
Paper in FTU Path 1 Remove Paper E0B2	Paper is remained in the FTU path 1.	Remove the remained paper.
Paper in FTU Path 2 Remove Paper E0B3	Paper is remained in the FTU path 2.	Remove the remained paper.
Tray 1 Size Mismatch Load xxx E0BA	The wrong size paper is loaded in Tray 1. xxx is the paper size.	Load requested size paper in Tray 1.
Tray 1 Paper Height Error Reload Paper E0BB	Paper height in Tray 1 is incorrect.	Refer to “General Printing Problems” on page 5-4.
Tray 2 Size Mismatch Load xxx E0BC	The wrong size paper is loaded in Tray 2. xxx is the paper size.	Load requested size paper in Tray 2.
Tray 2 Paper Height Error Reload Paper E0BD	Paper height in Tray 2 is incorrect.	Refer to “General Printing Problems” on page 5-4.
HCF1 Lower Size Mismatch Load xxx E0BE	The wrong size paper is loaded in HCF1 Lower. xxx is the paper size.	Load requested size paper in HCF1 Lower.
HCF1 Lower Paper Height Error Reload Paper E0BF	Paper height in HCF1 Lower is incorrect.	Refer to “General Printing Problems” on page 5-4.
HCF1 Upper Size Mismatch Load xxx E0C0	The wrong size paper is loaded in HCF1 Upper. xxx is the paper size.	Load requested size paper in HCF1 Upper.
HCF1 Upper Paper Height Error Reload Paper E0C1	Paper height in HCF1 Upper is incorrect.	Refer to “General Printing Problems” on page 5-4.
HCF2 Lower Size Mismatch Load xxx E0C2	The wrong size paper is loaded in HCF2 Lower. xxx is the paper size.	Load requested size paper in HCF2 Lower.
HCF2 Lower Paper Height Error Reload Paper E0C3	Paper height in HCF2 Lower is incorrect.	Refer to “General Printing Problems” on page 5-4.
HCF2 Upper Size Mismatch Load xxx E0C4	The wrong size paper is loaded in HCF2 Upper. xxx is the paper size.	Load requested size paper in HCF2 Upper.
HCF2 Upper Paper Height Error Reload Paper E0C5	Paper height in HCF2 Upper is incorrect.	Refer to “General Printing Problems” on page 5-4.
CS1 Lower Mixed Paper Remove Paper E0C8	The different size paper is already stacked in CS1 Lower.	Remove paper from CS1 Lower.
CS1 Upper Mixed Paper Remove Paper E0CA	The different size paper is already stacked in CS1 Upper.	Remove paper from CS1 Upper.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
CS2 Lower Mixed Paper Remove Paper E0CC	The different size paper is already stacked in CS2 Lower.	Remove paper from CS2 Lower.
CS2 Upper Mixed Paper Remove Paper E0CE	The different size paper is already stacked in CS2 Upper.	Remove paper from CS2 Upper.
Post Device Mixed Paper Remove Paper E0D0	The different size paper is already stacked in Post Device.	Remove paper from Post Device.
Paper Jam Input Station Remove Paper E110	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E111	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E112	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E113	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E114	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E115	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E116	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E117	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E118	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E119	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E11A	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E11B	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E11C	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Input Station Remove Paper E11D	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper Jam Input Station Remove Paper E11E	Paper Jam in Input Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 ISV Remove Paper E120	Paper Jam on the HCF1 ISV Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 ISV Remove Paper E121	Paper Jam on the HCF1 ISV Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 ISH Remove Paper E122	Paper Jam on the HCF1 ISH Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 ISH Remove Paper E123	Paper Jam on the HCF1 ISH Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 OUT Remove Paper E124	Paper Jam on the HCF1 OUT Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 OUT Remove Paper E125	Paper Jam on the HCF1 OUT Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 Joint Path Remove Paper E126	Paper Jam in HCF1 Joint Path.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 Joint Path Remove Paper E127	Paper Jam in HCF1 Joint Path.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 ISV Remove Paper E128	Paper Jam on the HCF2 ISV Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 ISV Remove Paper E129	Paper Jam on the HCF2 ISV Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 ISH Remove Paper E12A	Paper Jam on the HCF2 ISH Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 ISH Remove Paper E12B	Paper Jam on the HCF2 ISH Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 OUT Remove Paper E12C	Paper Jam on the HCF2 OUT Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 OUT Remove Paper E12D	Paper Jam on the HCF2 OUT Sensor.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 Joint Path Remove Paper E12E	Paper Jam in HCF2 Joint Path.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper Jam HCF2 Joint Path Remove Paper E12F	Paper Jam in HCF2 Joint Path.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam Tray 1 Remove Paper E150	Paper Jam in Tray 1.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam Tray 1 Remove Paper E151	Paper Jam in Tray 1.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam Tray 2 Remove Paper E152	Paper Jam in Tray 2.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam Tray 2 Remove Paper E153	Paper Jam in Tray 2.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam HCF1 Lower Remove Paper E154	Paper Jam in HCF1 Lower.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam HCF1 Lower Remove Paper E155	Paper Jam in HCF1 Lower.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam HCF1 Upper Remove Paper E156	Paper Jam in HCF1 Upper.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam HCF1 Upper Remove Paper E157	Paper Jam in HCF1 Upper.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam HCF2 Lower Remove Paper E15A	Paper Jam in HCF2 Lower.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam HCF2 Lower Remove Paper E15B	Paper Jam in HCF2 Lower.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam HCF2 Upper Remove Paper E15C	Paper Jam in HCF2 Upper.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Double Feed Jam HCF2 Upper Remove Paper E15D	Paper Jam in HCF2 Upper.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Registration Station Remove Paper E162	Paper Jam in Registration Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Registration Station Remove Paper E163	Paper Jam in Registration Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Registration Station Remove Paper E164	Paper Jam in Registration Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper Jam Registration Station Remove Paper E165	Paper Jam in Registration Station.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Skew Tray 1 Remove Paper E170	Paper Jam in Tray 1.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Skew Tray 2 Remove Paper E171	Paper Jam in Tray 2.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Skew HCF1 Lower Remove Paper E172	Paper Jam in HCF1 Lower.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Skew HCF1 Upper Remove Paper E173	Paper Jam in HCF1 Upper.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Skew HCF2 Lower Remove Paper E175	Paper Jam in HCF2 Lower.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Skew HCF2 Upper Remove Paper E176	Paper Jam in HCF2 Upper.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Skew Duplex Path Remove Paper E178	Paper Jam in Duplex Path.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Dram Wrap Remove Paper E17A	Paper Jam on Drum.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Dram Wrap Remove Paper E17B	Paper Jam on Drum.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Fuser Remove Paper E180	Paper Jam in Fuser.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Fuser Remove Paper E181	Paper Jam in Fuser.	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Sample Tray Remove Paper E184	Paper Jam in Sample Tray	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Paper Exit Remove Paper E186	Paper Jam in Paper Exit	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Paper Exit Remove Paper E187	Paper Jam in Paper Exit	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Paper Exit Remove Paper E188	Paper Jam in Paper Exit	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper Jam Paper Exit Remove Paper E189	Paper Jam in Paper Exit	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Switch Back Remove Paper E18D	Paper Jam in Switch Back	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Switch Back Remove Paper E18E	Paper Jam in Switch Back	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Duplex Path Remove Paper E190	Paper Jam in Duplex Path	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Duplex Path Remove Paper E191	Paper Jam in Duplex Path	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Duplex Path Remove Paper E192	Paper Jam in Duplex Path	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Duplex Path Remove Paper E193	Paper Jam in Duplex Path	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Tray 1 Remove Paper E1A0	Paper Jam in Tray 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Tray 1 Remove Paper E1A1	Paper Jam in Tray 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Tray 1 Remove Paper E1A2	Paper Jam in Tray 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Tray 2 Remove Paper E1A3	Paper Jam in Tray 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Tray 2 Remove Paper E1A4	Paper Jam in Tray 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam Tray 2 Remove Paper E1A5	Paper Jam in Tray 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 Lower Remove Paper E1A6	Paper Jam in HCF1 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 Lower Remove Paper E1A7	Paper Jam in HCF1 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 Lower Remove Paper E1A8	Paper Jam in HCF1 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper Jam HCF1 Upper Remove Paper E1A9	Paper Jam in HCF1 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 Upper Remove Paper E1AA	Paper Jam in HCF1 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF1 Upper Remove Paper E1AB	Paper Jam in HCF1 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 Lower Remove Paper E1AF	Paper Jam in HCF2 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 Lower Remove Paper E1B0	Paper Jam in HCF2 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 Lower Remove Paper E1B1	Paper Jam in HCF2 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 Upper Remove Paper E1B2	Paper Jam in HCF2 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 Upper Remove Paper E1B3	Paper Jam in HCF2 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam HCF2 Upper Remove Paper E1B4	Paper Jam in HCF2 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 1 Remove Paper E1C0	Paper Jam in CS1 Path 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 1 Remove Paper E1C1	Paper Jam in CS1 Path 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 2 Remove Paper E1C2	Paper Jam in CS1 Path 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 2 Remove Paper E1C3	Paper Jam in CS1 Path 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 3 Remove Paper E1C4	Paper Jam in CS1 Path 3	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 3 Remove Paper E1C5	Paper Jam in CS1 Path 3	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Lower Remove Paper E1C6	Paper Jam in CS1 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper Jam CS1 Lower Remove Paper E1C7	Paper Jam in CS1 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 4 Remove Paper E1C8	Paper Jam in CS1 Path 4	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 4 Remove Paper E1C9	Paper Jam in CS1 Path 4	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Upper Remove Paper E1CA	Paper Jam in CS1 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Upper Remove Paper E1CB	Paper Jam in CS1 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 5 Remove Paper E1CC	Paper Jam in CS1 Path 5	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 5 Remove Paper E1CD	Paper Jam in CS1 Path 5	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 6 Remove Paper E1CE	Paper Jam in CS1 Path 6	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS1 Path 6 Remove Paper E1CF	Paper Jam in CS1 Path 6	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 1 Remove Paper E1D0	Paper Jam in CS2 Path 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 1 Remove Paper E1D1	Paper Jam in CS2 Path 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 2 Remove Paper E1D2	Paper Jam in CS2 Path 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 2 Remove Paper E1D3	Paper Jam in CS2 Path 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 3 Remove Paper E1D4	Paper Jam in CS2 Path 3	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 3 Remove Paper E1D5	Paper Jam in CS2 Path 3	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Lower Remove Paper E1D6	Paper Jam in CS2 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.

Table 5-7. Printer Error Messages

Message	Description	Corrective Action
Paper Jam CS2 Lower Remove Paper E1D7	Paper Jam in CS2 Lower	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 4 Remove Paper E1D8	Paper Jam in CS2 Path 4	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 4 Remove Paper E1D9	Paper Jam in CS2 Path 4	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Upper Remove Paper E1DA	Paper Jam in CS2 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Upper Remove Paper E1DB	Paper Jam in CS2 Upper	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 5 Remove Paper E1DC	Paper Jam in CS2 Path 5	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 5 Remove Paper E1DD	Paper Jam in CS2 Path 5	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 6 Remove Paper E1DE	Paper Jam in CS2 Path 6	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam CS2 Path 6 Remove Paper E1DF	Paper Jam in CS2 Path 6	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam FTU Path 1 Remove Paper E1E0	Paper Jam in FTU Path 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam FTU Path 1 Remove Paper E1E1	Paper Jam in FTU Path 1	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam FTU Path 2 Remove Paper E1E2	Paper Jam in FTU Path 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
Paper Jam FTU Path 2 Remove Paper E1E3	Paper Jam in FTU Path 2	Remove the jammed paper. If jam is reproduced, refer to “General Printing Problems” on page 5-4.
IPDS Internal Error (100~999A)	IPDS Logical Programing Error.	Power off and on the printer.
IPDS Database Error	IPDS Font Resource abnormal data found.	Execute “Reset IPDS Fonts”. Refer to 2-16.



CAUTION!

If the message “Open the Fuser cover, and check that there is no paper” is displayed with E31x Call for Service error, open the Fuser cover and check the Fuser unit refer to Chapter 4.

Precaution of IPDS

About AFP/IPDS Fonts

The AFP/IPDS Single Byte Character Set (SBCS) font is stored on the hard disk drive.

Limitation

IPDS jobs cannot be stored on the document server.

PCL fonts are not accessible via AFP/IPDS, nor can PCL access AFP/IPDS fonts.

PostScript fonts are not accessible via AFP/IPDS, nor can PostScript access AFP/IPDS fonts.

The mainframe or host computer will not be notified of errors that happen before this machine establishes connection with them.

When the printer is powered off during an error such as door open, after turning on the printer again, the host system might detect OFFLINE state of the printer even though the printer is Ready.

If this happens, the printer must be powered off and on to recover.

Blank

Chapter 6

Web Utilities

What This Chapter Provides

This chapter contains information on the following topics:

- [Overview](#)
- [Manage Status Options](#)
- [Manage System Options](#)
- [Manage Configuration Options](#)
- [Using the Accounting File](#)

Overview

The Web Utilities give you the power to access the printer through the Internet or your company's Intranet. The Web Utilities divided two areas: Manage and Service, and you can use the Manage area to perform many functions. The options available in Manage area are listed below. The Service area is password protected and this area is used by authorized service technician only.

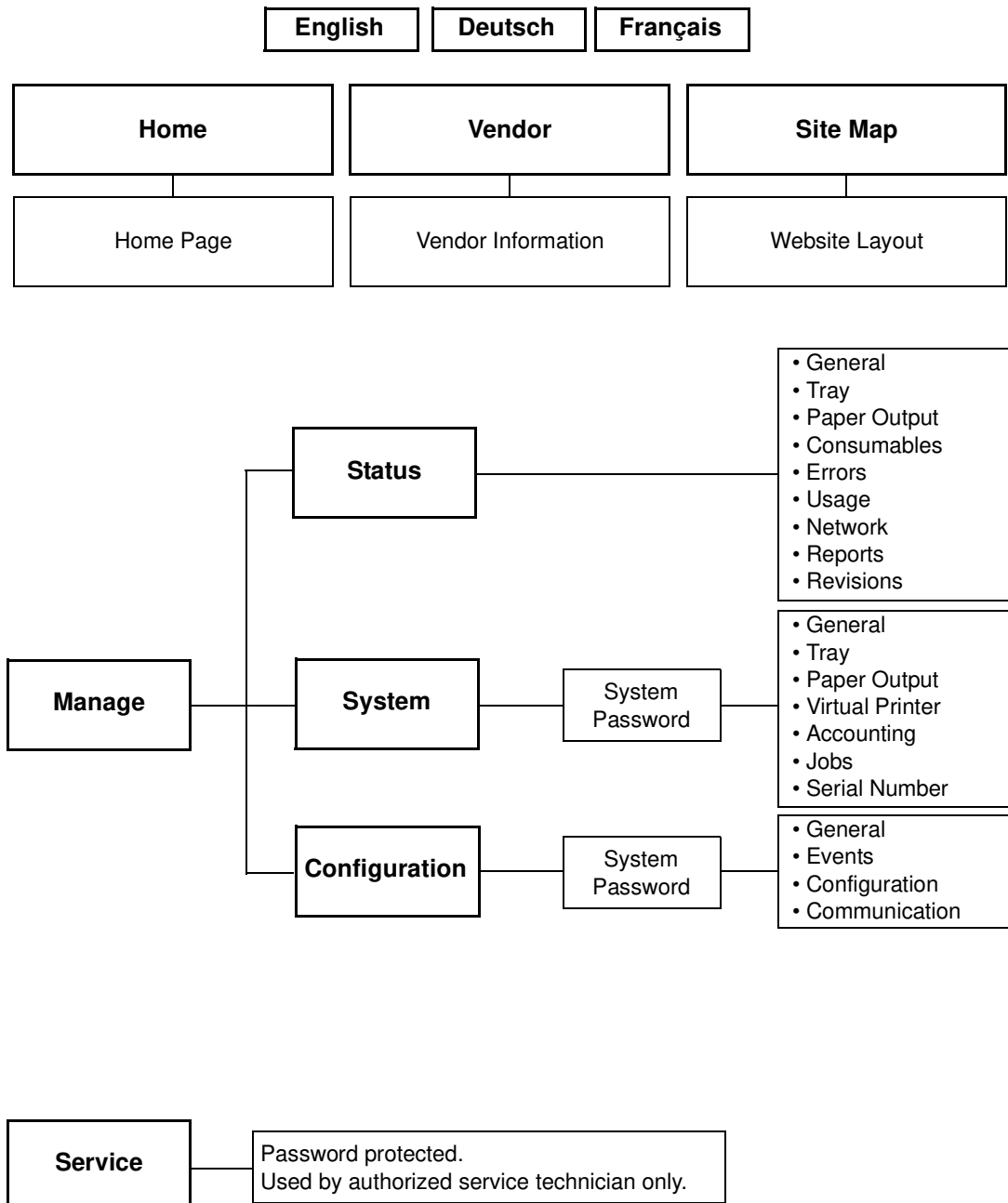


Figure 6-1. Web Utilities Menu Tree

The options available to you depend on the features installed on your system, so some of the options shown in this chapter may not be available to you. For example, if the HCF is not installed on your system, any options and Web pages relating to the HCF will not be displayed.

NOTE:

Settings made with the Web Utilities override OCP settings.

Often, the status of an item is indicated with a colored button or graphic. Three colors are used throughout the Web Utilities to graphically display the status of various items.

- Green indicates a normal condition.
- Yellow indicates a warning condition (e.g., low paper, low toner, consumable near end of life).
- Red indicates an obstacle to printing, such as an empty condition, consumable at end of life, paper jam, or door open.

Access and Security

Not all Web Utilities are available to every type of user. Access to certain utilities is limited by a password. Passwords provide security to the System and Service areas of the system. The Web Utilities provide three levels of access: Status, System, and Service, which are described below.

- Status Access

Access to the Manage-Status area does not require a password. It allows the user to view all Status options.

- System Access

Access to the Manage-System area and the Manage-Configuration area requires a system password and enables the user to perform System functions and Configuration functions. All user-accessible items are available as well.

- Service Access

Service area requires a service password and enables unrestricted access to the system. All user-accessible and system-accessible items are available as well.

NOTES:

It is the responsibility of the servicing dealer and/or system administrator to set and secure passwords in the Web Utilities.

*To access the Manage-System area and the Manage-Configuration area, enter the User Name **system**. The default password for both areas is blank and should be changed when the printer is installed.*

Accessing the Web Utilities

To access the Web Utilities, enter the IP address or DNS name of the printer in the address bar of your Internet browser. The Home Page is the first page that will be displayed.

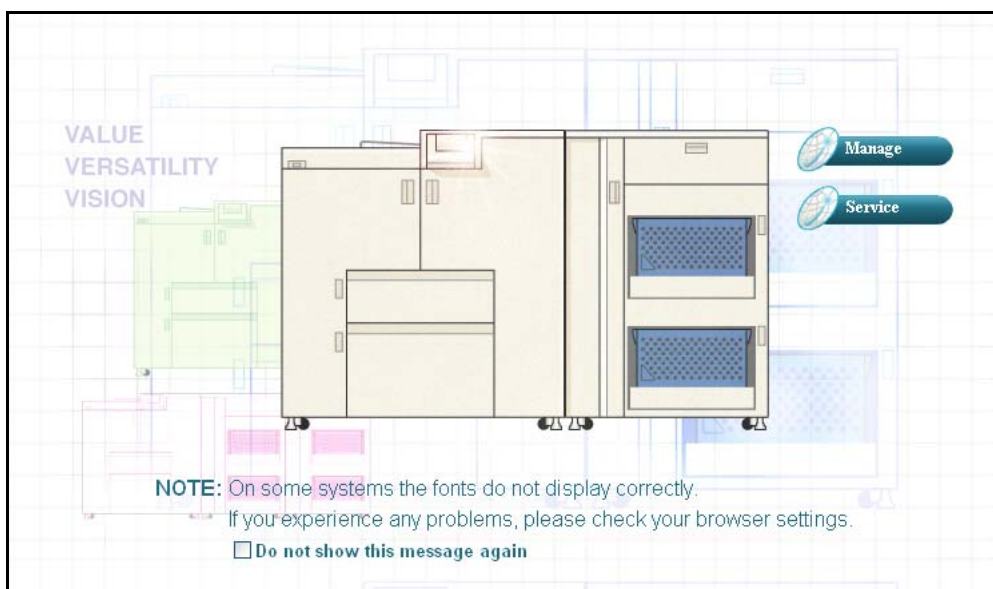


Figure 6-2. Accessing the Web Utilities

You can make a selection from the Home Page or wait 90 seconds for the Status-General page to be automatically displayed.

NOTES:

The connection between the printer and the PC is lost if the printer power is cycled during accessing the Web Utilities. Please restart the Internet Browser if the printer power is cycled.

Web Page Organization

All Web pages have a common Top and Left bar. A description of these common areas follows.

Top Bar Options

Table 6-1. Top Bar Options

Option	Description
Language	The Web page default language is the language set on the Operator Control Panel. Select English, Deutsch and Français for the Web page display language.
Home	Click to return to the Home page.
Vendor	Displays vendor information including name, address, phone and URL address.
Site Map	Displays the overall layout of the Web pages. The Site Map is a useful tool for locating information.

Home

Click to return to the Home page. A sample is shown on page 6-4.

Vendor

Displays dealer information including, name, address, phone number and URL address.



Vendor Information	
Name	Garry Boom
Phone Number	888-321-2346
Fax Number	888-321-2348
Street Address	123 Joy Ave
City, State/Region, Zip/Postal Code	Canoga Park, CA, 91306
Country	USA
E-mail	garry-boom@mycompany.com
URL	http://www.mycompany.com

Figure 6-3. Vendor

Site Map

This page displays the overall layout of the Web pages and is useful for locating information.

The contents of items for IPDS will be displayed when IPDS option is installed.

Printer Display

Ready

Manage

Service

- Status
- System
 - General
 - Tray
 - Paper Output
 - Virtual Printer
 - Accounting
 - Jobs
 - Serial No.
- Configuration

Site Map

MANAGE

Status
General
Tray
Tray 1
Tray 2
HCF1 Lower
HCF1 Upper
HCF2 Lower
HCF2 Upper
Paper Output
Consumables
Errors
Usage
Network
TCP/IP
Reports
Revisions

System
General
PostScript
IPDS
- Parameter
- Forms
- Capture
Options
Tray
Tray 1
Tray 2
HCF1 Lower
HCF1 Upper
HCF2 Lower
HCF2 Upper
HV Adjust
Paper Color
HCF Tray Control
Paper Output
Virtual Printer
Accounting
Jobs
Serial No.

Configuration
General
Events
Configuration
Password
Miscellaneous
Calendar
Tray Map
Communication
TCP/IP

SERVICE

Service
Consumables
PR Parts
Page Counter
Documentation
Engine Config
General
Unit Config
Stacker Adjust
Tray Adjust
Specific Engine Log
Reset
Log

Configuration
Password
License Keycode
Events
Address Book
Dealer
Misc


Figure 6-4. Site Map

6-6 Web Utilities

OG	L	0 4	
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Left Bar Options

Table 6-2. Left Bar Options

Option	Description
Printer OCP Display	Displays the current printer Operator Control Panel (OCP) message including printer status and error messages.
Refresh 	Click to refresh the current Web page.
Manage	Click to display the Manage Status, System and Configuration Web pages. For a list of Manage options, refer to the Site Map.
Service	Click to display the Service and Service Configuration Web pages. For a list of Service options, refer to the Site Map.

Printer Display

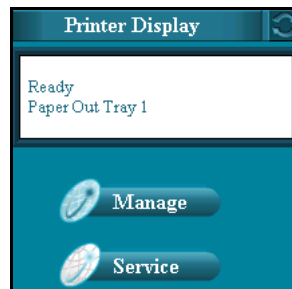


Figure 6-5. Printer Display

Manage Status Options

Each of the options available under Manage Status are described in the following table. Access to the Status options is not restricted by a password.

Table 6-3. Manage Status Options

Option	Description
General	Displays printer configuration and status. Displays information of the printer name, printer location, printer uptime, and service contact.
Tray	Displays the size, type, color and weight of the paper in each tray, and setting of the Table Adjust and the Paper Moisture. Graphically displays the amount of paper in each tray.
Paper Output	Displays the basket size and paper size of the paper in each stacker. Graphically displays the amount of paper in each stacker.
Consumables	Displays the status of the toner, developer mix, OPC Sheet and OPC Sheet Counter.
Errors	Displays the error counts for the printer.
Usage	Displays toner coverage percentages, PM counter, process counter, total page counter and click charge counter.
Network	Displays the MAC address, IP address, subnet mask and gateway address of the onboard network controller. If installed, this information is displayed for the Network Interface Card (NIC) as well.
Reports	Lists all available reports as links. For example, Status, Summary, Demo, PCL Directory, PCL Fonts, etc. Prints the relevant report when the link is clicked.
Revision	Displays revision information for the engine firmware and controller software.

Status-General

The Status-General page displays the status of the print engine, paper trays, finisher, consumables, all installed options, Post device, and Service Contact information. It also allows you to select the desired language for your web pages.

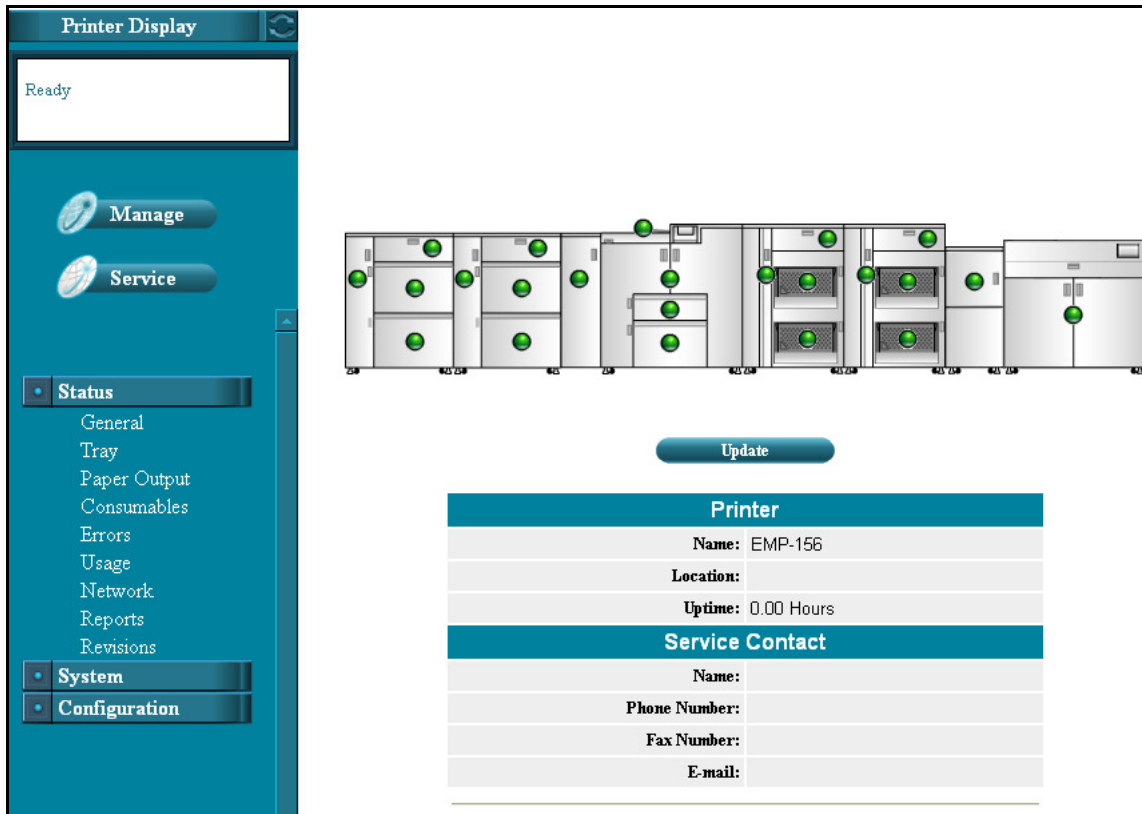


Figure 6-6. Status-General

NOTE:

Only the options or the Post Device that are installed will be displayed on the Status-General page.

A colored button is located on each part of the printer to graphically indicate the condition of the item.

- Green indicates a normal condition.
- Yellow indicates a warning condition (e.g., low paper, low toner, consumable near end of life).
- Red indicates an obstacle to printing, such as an empty condition, consumable at end of life, paper jam, or door open.

Click a button to display information on that part of the printer. For example, if you click on the Tray1 button, the Status-Tray page is displayed with detailed paper tray information.

This page refreshes automatically every 90 seconds. Optionally, you can click the **Update** button to refresh the display on demand.

Status-Tray

The Status-Tray page displays the status of the paper trays. For each paper tray, the size, type, color and weight of the paper is noted. The amount of paper in each tray is graphically displayed in the far right column. The setting of the Table Adjust and the Paper Moisture are also displayed.

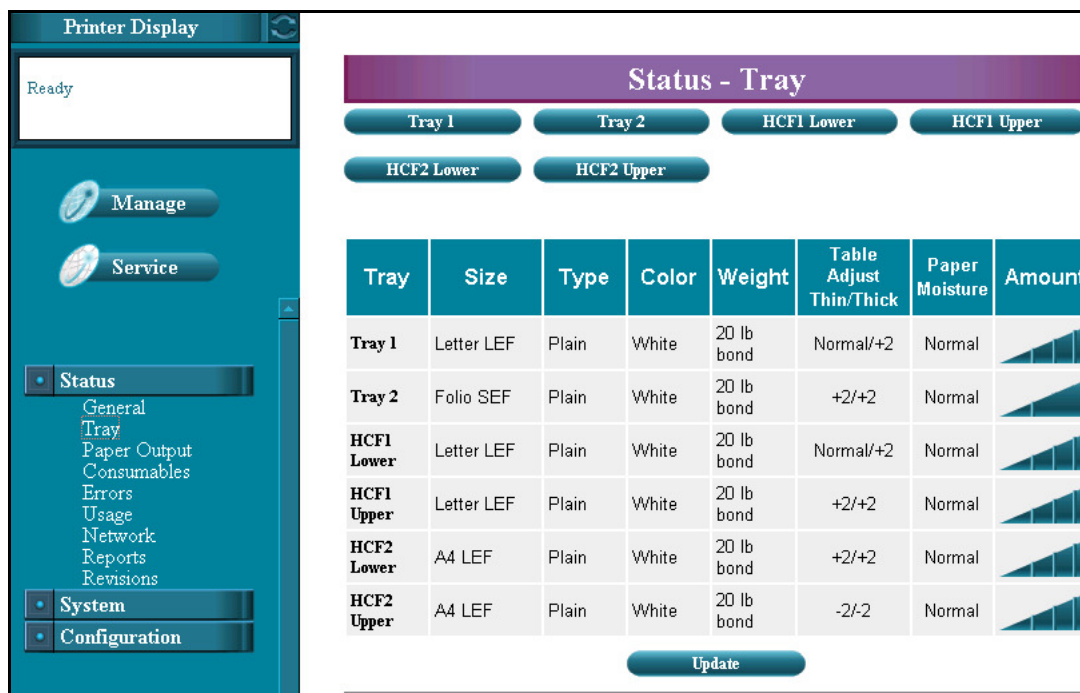


Figure 6-7. Status-Tray

This page refreshes automatically every 90 seconds. Optionally, you can click the **Update** button to refresh the display on demand.

Status-Paper Output

The Status-Paper Output page for the Stacker displays information on each stacker installed. For each stacker, the basket size and paper size is displayed. The amount of paper in each stacker is graphically displayed in the far right column. The status of each stacker covers and the sample tray are also displayed.

If the Finishing Transport Unit and Post Device are installed, status for these equipment is also displayed.

Printer Display Ready

Status - Paper Output

CS Finisher

CS			
Stacker	Basket	Size	Level
CS1 Lower	Short	undefined	
CS1 Upper	Short	undefined	
CS2 Lower	Long	undefined	
CS2 Upper	Long	undefined	
CS1 U Cover		No Errors to Report	
CS2 U Cover		No Errors to Report	
CS1 L Cover		No Errors to Report	
CS2 L Cover		No Errors to Report	
Sample Tray		No Errors to Report	

Default Output : CS1 Lower

Update

Printer Display Ready

Status - Paper Output

CS Finisher

Finisher		
Finishing Transport Unit	No Errors to Report	
Finisher	No Errors to Report	

Default Output : CS1 Lower

Update

Figure 6-8. Status-Paper Output

This page refreshes automatically every 90 seconds. Optionally, you can click the **Update** button to refresh the display on demand.

Status-Consumables

The Status-Consumables page graphically displays the status of the printer consumables. This includes the status of the toner, developer mix, OPC Sheet, and OPC Sheet Counter.

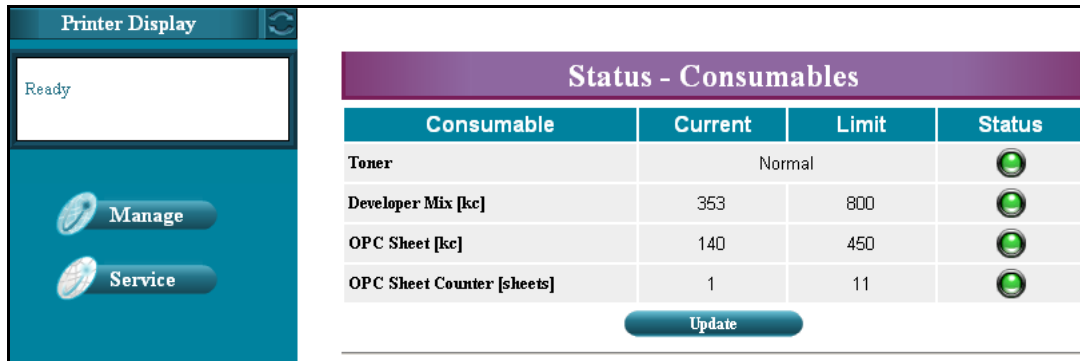


Figure 6-9. Status-Consumables

A colored button graphically indicates the condition of each element.

- Green indicates a normal condition.
- Yellow indicates a warning condition (e.g., low toner, consumable near end of life).
- Red indicates an obstacle to printing, such as an empty condition, consumable at end of life, paper jam, or door open.

This page refreshes automatically every 90 seconds. Optionally, you can click the **Update** button to refresh the display on demand.

Status-Errors

The Status-Errors page displays the error counts for the printer. This information is useful to Service and Technical Support personnel.

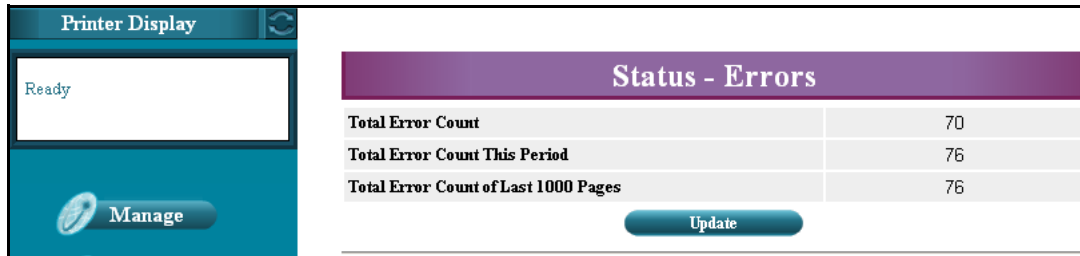


Figure 6-10. Status-Errors

This page refreshes automatically every 90 seconds. Optionally, you can click the **Update** button to refresh the display on demand.

Status-Usage

The Status-Usage page displays the toner coverage and paper usage information.

The Current Period value is increased when a page is printed. The Lifetime value is increased when the engine picks up a paper from an input tray.

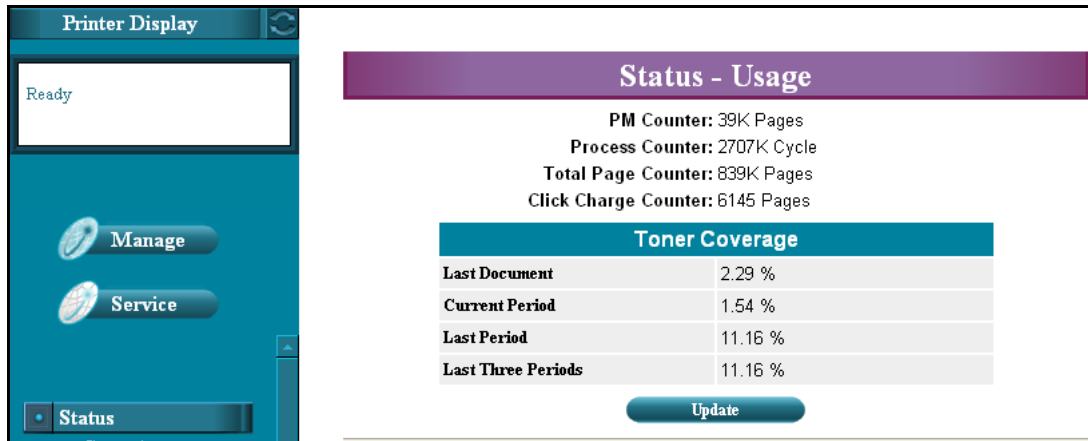


Figure 6-11. Status-Usage

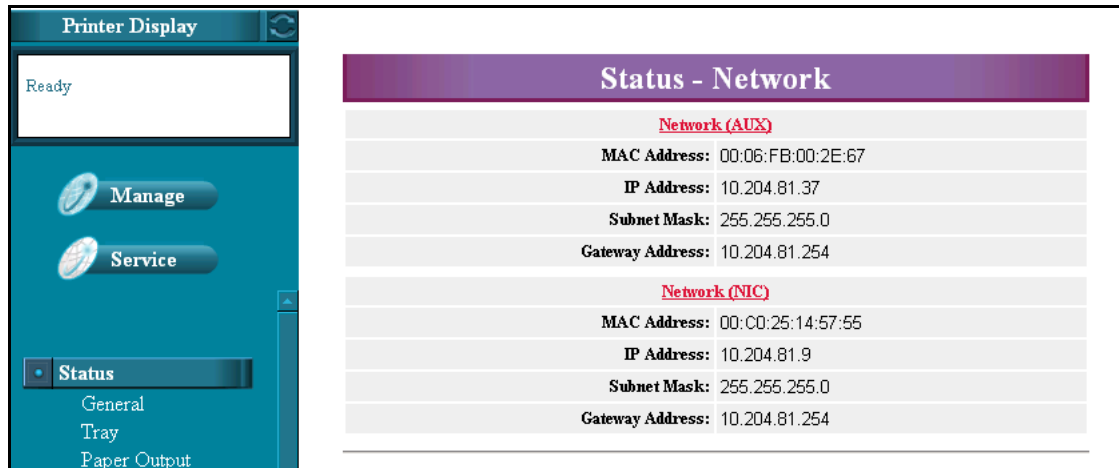
- **PM Counter**
Displays remaining page counts until next preventive maintenance period.
- **Process Counter**
Displays the number of printer drum cycles. A single drum cycle may correspond to one or more letter size image.
- **Total Page Counter**
Displays total counts of printed pages. If paper length (feed direction) is longer than 8.5 inches, this counter counts +2 per page.
- **Click Charge Counter**
Displays page counts for charging. This counter counts value with following method.
 - ❑ If “Click Charge Double Count” in the Service menu is “Disable”, counter counts +1 per page regardless of page size.
 - ❑ If “Click Charge Double Count” in the Service menu is “Enable”, counter counts ;
 - +1 per page : paper length (feed direction) is shorter than 8.5 inches.
 - +2 per page : paper length is longer than 8.5 inches.
 - ❑ Counter does not count following pages.
 - Blank page other than containing in the job.
 - Offline print page in the Service menu.
- **Toner Coverage**
Displays logical toner coverage of printed output.

This page refreshes automatically every 90 seconds. Optionally, you can click the **Update** button to refresh the display on demand.

Status-Network

The Status-Network page displays network address information. The example below shows a system with the optional Network Interface Card (NIC) installed.

The onboard network controller is labeled Network(AUX) in this example. If the optional NIC is not installed, only information for the onboard network controller is displayed.



The screenshot shows a printer utility interface. On the left is a sidebar with a 'Printer Display' header, a 'Ready' status box, and buttons for 'Manage', 'Service', and 'Status'. The 'Status' button is selected, showing sub-options: 'General', 'Tray', and 'Paper Output'. The main content area is titled 'Status - Network' and displays network information for two interfaces: Network (AUX) and Network (NIC). Each interface shows its MAC Address, IP Address, Subnet Mask, and Gateway Address.

Status - Network	
Network (AUX)	
MAC Address:	00:06:FB:00:2E:67
IP Address:	10.204.81.37
Subnet Mask:	255.255.255.0
Gateway Address:	10.204.81.254
Network (NIC)	
MAC Address:	00:C0:25:14:57:55
IP Address:	10.204.81.9
Subnet Mask:	255.255.255.0
Gateway Address:	10.204.81.254

Figure 6-12. Status-Network

Status-Report

The Status-Reports page displays all available printer reports as links. Simply click on the desired report to print it.

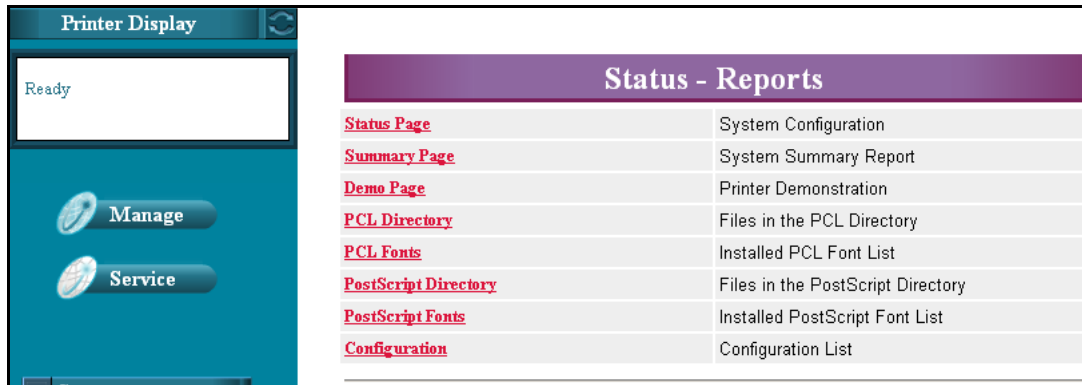
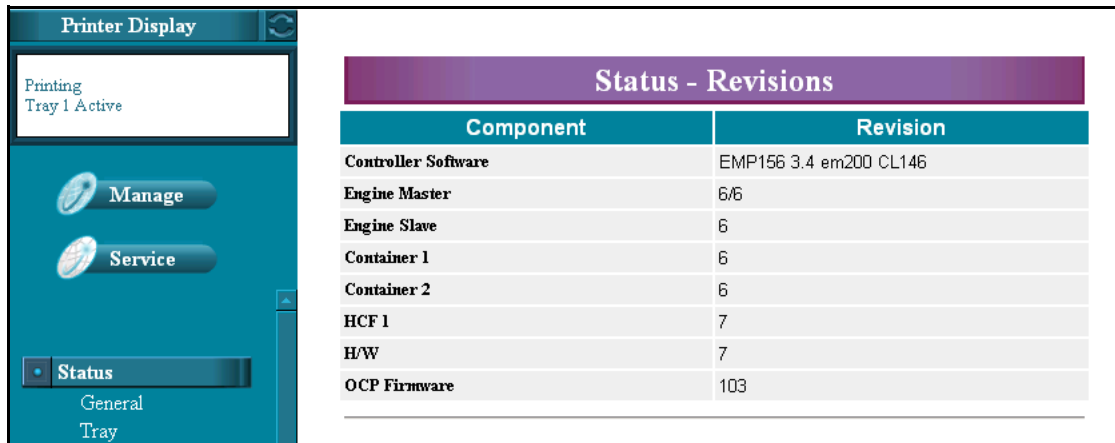


Figure 6-13. Status-Report

Status-Revision

The Status-Revision page displays revision information for each installed component of the printer (Engine Firmware and Controller Software). This information is useful to Service and Technical Support personnel.



Status - Revisions	
Component	Revision
Controller Software	EMP156 3.4 em200 CL146
Engine Master	6/6
Engine Slave	6
Container 1	6
Container 2	6
HCF 1	7
H/W	7
OCP Firmware	103

Figure 6-14. Status-Revision

Manage System Options

Each of the options available under Manage System are described in the following table. You must have the System password to access or update these Web pages.

NOTES:

It is the responsibility of the servicing dealer and/or system administrator to set and secure passwords in the Web Utilities.

*To access the System area, enter the User Name **system**. The default password is blank and should be changed when the printer is installed.*

Table 6-4. Manage System Options

Option	Description
General	Displays PostScript parameters and additional printer parameters.
Tray	Displays the paper size, type, color, weight, and Table Adjust and Paper Moisture for selected paper source. Also display the HV adjust, Paper color and HCF Control settings.
Paper Output	Displays the stacking level of each stacker.
Virtual Printer	This option provides access to the System-Channel configuration Web pages. These pages give you the power to configure your default printer and VPT network printers.
Accounting	Displays accounting information such as toner coverage and job counts. Optionally, the accounting reports can be downloaded to your computer.
Jobs	Displays all jobs in the system. Jobs can monitored or cancelled from this page.
Serial Number	Displays the controller board serial number.

System-General

PostScript

This page allows you to modify the PostScript parameters. After making the desired changes, click **Submit** to update the settings.

The screenshot shows a web interface for printer configuration. On the left, a sidebar contains a 'Printer Display' section showing 'Ready', and buttons for 'Manage', 'Service', 'Status', and 'System'. The 'System' section is expanded, showing 'General', 'Tray', and 'Paper Output'. The main content area is titled 'System - General' and has two tabs: 'PostScript' (selected) and 'Options'. Under the 'PostScript' tab, there are several settings: 'Print Errors' is set to 'Enabled'; 'Best Fit' is set to 'Enabled'; 'Job Timeout (0,15 - 999)' is set to '0' seconds; 'PS Wait Timeout (0 - 999)' is set to '295' seconds; and '*Memory Size (7.5 - 15)' is set to '11.8 %'. There is a checkbox for 'Modify Memory Size' which is currently unchecked. Below these settings, a note reads '(*)Changing Memory Size requires power cycle.' and a 'Submit' button is located at the bottom right of the settings area.

Figure 6-15. System-General-PostScript

- **Print Errors**
Enables or disables automatic printing of PostScript errors.
- **Best Fit**
When enabled, if the requested paper size is not present in any tray, the printer will select the closest available paper size and scale the image to fit.
- **Job Timeout**
Defines the time limit (in seconds) for processing of the PostScript job. Values are 0, or 15-999 seconds.
- **PS Wait Timeout**
Defines the waiting period (in seconds) from reception of last data to the reception of next data in the postscript job. If data is not received within the defined period, postscript timeout error is happened. Values are 0, or 15-999 seconds.
- **Memory Size**
Sets the PostScript memory size as a percentage of the total system memory. Values are 7.5 to 15.0. Use only 1 digit after the decimal point.

IPDS

Parameter

If the IPDS option is installed, this page allows you to modify the IPDS parameters. After making the desired changes, click Submit to update the settings.

Printer Display

Ready

Manage

Service

System - General

PostScript IPDS Options

Parameter Forms Capture

PARAMETER

Item	Function
Emulation Mode(*)	NATIVE
Default Code Page	037 US, Canada, Netherlands, Portugal
Default FGID	416 Courier Medium ***
Characters Per Inch (5.0 - 30.0)	10
Valid Print Area Check	Enabled
Page	Whole
Edge to Edge	Disabled
Font Substitution	Disabled
Resolution(*)	300
Graphic Character String	Auto
Bar Code	Auto
Box Draw	Disabled
Color Simulation	Fidelity
Text Color Simulation	Enabled
Finisher Staple Count	Enabled
NACK Suppression	Enabled

(*) Reset is required to activate modification.

TRAY

No	Mapping	Forms
Tray1	-1	None
Tray2	-1	None

Submit

Figure 6-16. System-General-IPDS(1)

- **Emulation Mode**
Specifies IPDS emulation mode.
 - ☐ Native (Default)
 - ☐ 4028
- **Default Code Page**
Specifies the default code page. The default value is “037”. For details, see “Appendix C”.
- **Default FGID**
Specifies the default FGID (Font Typeface Global Identifier), which identifies the printer’s default resident font. The default FGID is 416 (Courier 10 point). For details, see “Appendix D”.
- **Characters Per Inch**
Specifies the number of characters per inch (pitch) for the default font. Valid values are 5.0 to 30.0 in units of one tenth of an inch. The default value is 10.0.

■ Valid Print Area Check Page

Turns valid printable area checking on or off.

☐ Enabled (Default)

The printer checks for pixels that fall outside the intersection of the logical and physical pages. If there are pixels outside the area and error reporting has been set using the “IPDS Exception Handling Control” command, the printer reports an error to the host.

☐ Disabled

The printer does not report pixels outside the valid printable area.

■ Page

Specifies how data is positioned on the page.

☐ Whole (Default)

IPDS whole page. The printer does not move or compress the page. This is the preferred method; all page positioning and formatting is done at the application level on the host. The [Print], [Comp1], and [Comp2] commands may alter the appearance of the page, or may not be compatible with earlier products (for example, 3116, 3916), especially if these options are used in combination with duplex and other IPDS Menu page format adjustments. The [Print], [Comp1], and [Comp2] commands are included to allow line printer jobs to fit onto pages where “Edge to Edge” printing is not possible; we do not recommend you use them to create new applications.

☐ Comp1

This command uses the “Print Page” command as its base, and compresses the spacing between text lines generated by the “IPDS Begin Line” command. Its primary purpose is to compress “Begin Line” command text data onto pages that have unprintable borders.

☐ Comp2

This command uses the “Print Page” command as its base, and compresses “IPDS Begin Line” command text (see Comp1) and the data of the following vertical text positioning commands: “Absolute Move Baseline”, “Relative Move Baseline”, “Draw B Axis Rule”, and “Draw I Axis Rule”.

NOTE:

Alignment problems can occur if you select [Comp1] or [Comp2], and print jobs that mix text with images, graphics, or bar codes. Problems can occur if text positioning commands are used to move across text or into non-text (image, graphic, or bar code) areas. Both [Comp1] and [Comp2] reduce the line spacing of text only and have no effect on non-text data. To minimize alignment problems, select [Comp1], because “Begin Line” commands are not normally used to move across or into non-text areas. If, however, the application you want to compress does not use the “Begin Line” command, select [Comp2].

☐ Print

IPDS print page. If the page origin is within the unprintable area, the origin of the page is moved to the inside edge of the nearest unprintable area border. If the origin violates the unprintable area on two edges, it is moved to the nearest inside corner of the unprintable area. If the origin violates only one edge of the unprintable area, the origin is adjusted to avoid that area only.

If a location adjustment is made, the printed page is shifted in the direction of the adjustment. There is no compression, so data on the opposite edge may be pushed off the page.

NOTE:

For the “Print” command to function, the “Edge to Edge” setting must be set to [Off]. Any data placed in this unprintable area is lost. Also, “Print” will not function on media overlays (overlays that are part of the base page, not the overlays included in the variable print data).

■ Edge to Edge

Turns “Edge to Edge” printing on or off.

☐ Disabled (Default)

The printer maintains a border of 2 mm (0.078 in) on the leading edge, but prints to all other page borders.

☐ Enabled

The printer allows printing up to the physical page size.

NOTE:

For prevent toner accumulating inside the printer, we recommend leaving “Edge to Edge” set to [Off] for IPDS, and setting it to [On] only when necessary. The “Edge to Edge” IPDS Menu item affects IPDS data only.

■ Font Substitution

Turns font substitution on or off.

☐ Disabled (Default)

If a job requests a font that is not loaded on the printer, the printer generates an IPDS NACK (Negative Acknowledgement) message and the host holds the job.

☐ Enabled

If a job requests a font that is not loaded on the printer, the printer uses a substitute font.

■ Resolution

Specifies the resolution reported to the host in the “IPDS XOA-OPC command for raster coded fonts and IM1 image support. The “Resolution” menu item also helps determine whether or not a printer-resident raster font is used. For example, 240 dpi raster fonts are activated at the [240 dpi] setting, not at [300 dpi] or [600 dpi]. The “Resolution” setting does not affect outline fonts, nor does it determine which raster fonts can be downloaded to the printer as temporary activation fonts.

□ 300 dpi (Default)

Reports to the host that the printer supports 300 dpi raster fonts and IM1 images. “Resident” or “Captured” raster fonts of other resolutions are not activated unless a matching “Font Resolution” and “Metric Technology Triplet” is provided with the activation request.

□ 600 dpi

Reports to the host that the printer supports 600 dpi raster fonts and IM1 images. “Resident” or “Captured” raster fonts of other resolutions are not activated unless a matching “Font Resolution” and “Metric Technology Triplet” is provided with the activation request.

□ 240 dpi

Reports to the host that the printer supports 240 dpi raster fonts and IM1 images. “Resident” or “Captured” raster fonts of other resolutions are not activated unless a matching “Font Resolution” and “Metric Technology Triplet” is provided with the activation request.

□ Auto

Reports to the host that the printer supports raster fonts of any dpi value and IM1 images. “Resident” or “Captured” raster fonts of other resolutions are not activated unless a matching “Font Resolution” and “Metric Technology Triplet” is provided with the activation request.

■ Graphic Character String

Specifies the Graphic Character String (Graphic Character Sizing) processing method.

□ Auto (Default)

Applies the value specified by the “Emulation Mode” item ([Native] or [4028]).

□ Character Scale

Applies 4028 IPDS Emulation. Prints graphics and text characters by scaling the characters in a currently activated font. Character cell size is defined in the GOCA data stream. Not available for DBCS.

□ Font Activation

Applies Native IPDS Emulation. Prints graphics and text characters using a currently activated font at the font’s activation size, without scaling. GOCA data stream Character cell size information is ignored.

■ **Bar Code**

Specifies the barcode level protocol.

☐ **Auto (Default)**

Applies the value specified by the “Emulation Mode” item ([Native] or [4028]).

☐ **4028**

Applies 4028 IPDS Emulation.

☐ **Native**

Applies Native IPDS Emulation.

■ **Box Draw**

Specifies the Box Draw processing.

☐ **Disabled (Default)**

Uses Symbol Set outline font characters to draw boxes as the font-defined characters.

☐ **Enabled**

Uses special outline fonts to draw Symbol Set box characters. Select [On] to fill gaps caused by special raster fonts that contain extended length box characters (as found in older applications, for example).

■ **Color Simulation**

Allows you to select how color specification controls are processed on a monochromatic printer.

☐ **Fidelity (Default)**

The printer accepts all color specification controls and simulates unique colors with shades of gray.

☐ **Legacy**

The printer accepts all color specification controls; but performs only limited color simulation using black.

■ **Text Color Simulation**

Specifies how text color specification controls are processed on a monochrome laser printer.

☐ **Enabled (Default)**

The printer accepts all text color specification controls and simulates unique colors with shades of gray.

☐ **Disabled**

The printer accepts all text color specification controls; but performs only limited color simulation using black.

NOTE:

This menu item is available only if “Color Simulation” mode is set to [Fidelity].

■ Tray - Mapping

Maps the media source (input tray) to an ID the host uses for the media source.

-1 : no mapping occur; the printer uses the default host media source ID

0-254 : maps the media source to the selected value.

■ Tray - Form

Specify an IPDS form for each input tray.

For each input tray, select the form you want to allocate to it.

Forms

Printer Display

Ready
PM Counter Warning

Manage

Service

System

General
Tray
Paper Output
Virtual Printer
Accounting
Jobs
Serial No.

Configuration

System - General

PostScript IPDS Options

Parameter Forms Capture

Create Forms

Form Name	form01
Description	
Media Size	Letter LEF
Custom size	N/A
Media type	Plain
Media color	White
Media Weight	20
Media Type Component ID	-1
Edge sensitive	No
Simplex only	No
Simplex adjust cross-feed	0
Simplex adjust feed	0
Front duplex adjust cross-feed	0
Front duplex adjust feed	0
Back duplex adjust cross-feed	0
Back duplex adjust feed	0

Submit

Figure 6-17. System-General-IPDS(2)

- **Form Name**

This setting allows the user to designate a specific form name that can be associated with a source media tray. Form names may consist of uppercase letter, lowercase letters and numbers.

- **Description**

This setting allows the user to set the description of a form.

- **Media Size**

This setting allows the user to designate a media size from an enumerated list of all media sizes the printer supports.

- **Custom Size Units**

Specifies the unit of measurement for the custom form.

- **Cross Feed Dimension**

Specifies the size of the side of the form that is fed into the printer.

- **Feed Dimension**

Specifies the size of the side of the form that is NOT fed into the printer.

-
- **Media type**
This setting allows the user to designate a media type from an enumerated list of all media types the printer supports.
 - **Media color**
This setting allows the user to designate a media type from an enumerated list of all media types the printer supports.
 - **Media Weight**
Media Weight in lb bond units.
 - **Media Type Component ID**
This setting allows the user to designate the ID (OID) that is reported to the host system by IPDS.
 - **Edge sensitive**
This setting allows the user to designate that the media associated with this form is edge sensitive (ie.pre-punched, tabstock).
 - **Simplex only**
This setting allows the user to designate that a form must be run though the simplex paper path.
 - **Simplex adjust cross-feed**
This allows the user to shift the image by 1/300 inch in cross-feed direction on simplex pages.
 - **Simplex adjust feed**
This allows the user to shift the image by 1/300 inch in the feed direction on simplex pages.
 - **Front duplex adjust cross-feed**
This allows the user to shift the image by 1/300 inch in cross-feed direction on the front side of a duplex page.
 - **Front duplex adjust feed**
This allows the user to shift the image by 1/300 inch in the feed direction on the front side of a duplex page.
 - **Back duplex adjust cross-feed**
This allows the user to shift the image by 1/300 inch in cross-feed direction on the back side of a duplex page.
 - **Back duplex adjust feed**
This allows the user to shift the image by 1/300 inch in the feed direction on the back side of a duplex page.

Capture

Delete	File	Last Modified	Size	Download
<input type="checkbox"/>	IN data	TUE JUL 24 10:06:16 2007	4136	
<input type="checkbox"/>	OUT data	TUE JUL 24 10:06:16 2007	11342	

Figure 6-18. System-General-IPDS(3)

- Disabled

No tracing will be performed. This is a default.

- Enabled

All IPDS inbound and outbound data is stored based on the file system specified by the trace configuration.

Data captured for an IPDS session consists of 2 files:

IN data -Data sent to the printer from a client is written to a file named printjob. bin.

OUT data -Data sent by the printer to the client (if any) is written to a file named backchan. bin.

After turning off the power, "Enabled" setting returns to "Disabled" automatically.

Approximate 2G Byte is the maximum trace size of total two files. Of course it is dependent on the remaining capacity of the disk. Trace will stop with maximum size.

Options

The Options page contains additional printer parameters that you can modify. After making the desired changes, click **Submit** to update the settings.

Printer Display

Ready
Sleep Mode

Manage

Service

Status

System

General

System - General

PostScript IPDS Options

Options

Auto Feed Direction Enabled

Exit Jam Recovery Enabled

Wait Timeout(0 - 999) 300 seconds

*PDL Memory Size (6 - 50) ☐ Modify Memory Size 16 %

(*)Changing Memory Size requires power cycle.

Submit

Figure 6-19. System-General-Options

- **Auto Feed Direction**

When enabled, if the requested paper feed direction is not present in any tray, the printer will select the difference paper feed direction of same paper size. This function is affected to A4 and Letter size only.
- **Exit Jam Recovery**

Can be set to enable or disable. When set to enable, the printer will reprint pages that were improperly printed due to a paper jam.
- **Wait Timeout**

Defines the waiting period (in seconds) from reception of last data to the reception of next data. If data is not received within the defined period, the job is terminated.
- **PDL Memory Size**

Sets the PDL memory size except PostScript as a percentage of the total system memory.
- **Print Density**

Print Density can be adjusted to five settings: Light, Semi-Light, Middle, Semi-Dark or Dark.

System-Tray

The System-Tray page displays information of the paper size, paper type, paper color, paper weight, the setting of the Table Position Adjust, and the setting of the Paper Moisture for the selected input tray. To select a input tray, click on Tray 1, Tray 2, HCF1 Lower, HCF1 Upper, HCF2 Lower, HCF2 Upper, HV Adjust, Paper Color, or HCF Control, near the top of the page.

System - Tray	
<div>Tray 1 Tray 2 HCF1 Lower HCF1 Upper HCF2 Lower HCF2 Upper HV Adjust Paper Color HCF Control</div>	
Tray 1	
Paper Size	Letter LEF
Paper Type	Plain
Paper Color	White
Paper Weight	20 lb bond
Table Position Adjust (Thin)	+2
Table Position Adjust (Thick)	+2
Paper Moisture	Normal
Custom Size	N/A
Submit	

Figure 6-20. System-Tray (1)

- Paper Size

Paper size of the currently selected paper source is displayed. When the “Custom Size Switch” in the tray is set to “Standard”, paper size is automatically detected. To use the Web to set the paper size to something other than the standard sizes, set the Custom Size Switch in the tray to “Custom”, then select Paper Size on the Web. See [“Paper Sizes, Paper Weights, Paper Types and Paper Color”](#) on page 3-3 for more information.

- Paper Type

Defines the paper type to desired input tray. See [“Paper Sizes, Paper Weights, Paper Types and Paper Color”](#) on page 3-3 for more information.

- Paper Color

Defines the paper color to desired input tray. See [“Paper Sizes, Paper Weights, Paper Types and Paper Color”](#) on page 3-3 for more information.

- Paper Weight

Defines the paper weight to desired input tray. See [“Paper Sizes, Paper Weights, Paper Types and Paper Color”](#) on page 3-3 for more information.

- Table Position Adjust (Thin/Thick)

Defines the table height setting of the each input tray. This option can be adjusted to five settings: +2, +1, Normal, -1 or -2. See [“Setting the Table Adjust” on page 3-23](#) for more information.

- Paper Moisture

Defines the Paper Moisture setting to each input tray. This option can be adjusted to four settings: Highest, Higher, Normal and Lower. See [“Setting the Paper Moisture” on page 3-25](#) for more information.

The settings on this page reflect what is set on the Operator Control Panel. If you make changes to this page and click the **Submit** button, the changes will be reflected on the Operator Control Panel.

HV Adjust

The HV adjust page is displayed when click on HV Adjust. The setting of the HV Adjust is common for all trays.

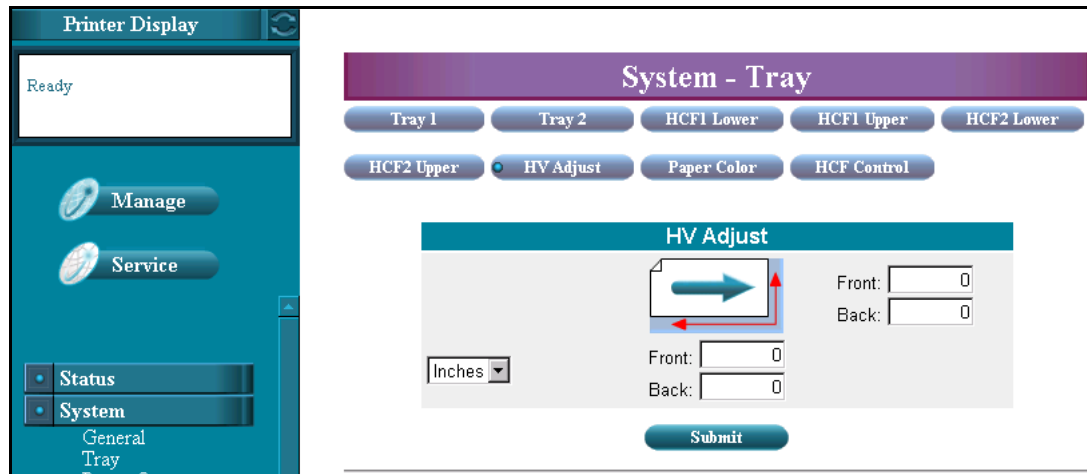


Figure 6-21. System-Tray (2)

The arrow on the HV Adjust screen indicates paper feed direction. The adjustment can be set to millimeters or inches and the range is -6.3 to +6.3 millimeters (-0.25 to +0.25 inches) in increments of 0.1 millimeter (0.01 inch). Difference positions can be set for front and back side in duplex printing mode. See [“Setting the HV Adjust Values” on page 3-21](#) for more information.

The settings on this page reflect what is set on the Operator Control Panel. If you make changes to this page and click the **Submit** button, the changes will be reflected on the Operator Control Panel.

Paper Color

The paper color page is displayed when you select Paper Color.

Printer Display: Ready

Manage

Service

System - Tray

Tray 1 Tray 2 HCF1 Lower HCF1 Upper HCF2 Lower

HCF2 Upper HV Adjust **Paper Color** HCF Control

No	User Define Color Name
COLOR 1	Color 1
COLOR 2	Color 2
COLOR 3	Color 3
COLOR 4	Color 4
COLOR 5	Color 5
COLOR 6	Color 6
COLOR 7	Color 7
COLOR 8	Color 8
COLOR 9	Color 9
COLOR 10	Color 10
COLOR 78	Color 78
COLOR 79	Color 79
COLOR 80	Color 80

Submit

System

- General
- Tray
- Paper Output
- Virtual Printer
- Accounting
- Jobs
- Serial No.

Configuration

Figure 6-22. System-Tray (3)

You can define the custom paper color names in this page. The custom paper color name can be defined up to 80 colors (default names are “Color 1”, “Color 2” ... “Color 80”). Each paper color name can be defined within 14 characters.

You can select these custom color name in each tray setting page.

The settings on this page reflect what is set on the Operator Control Panel. If you make changes to this page and click the **Submit** button, the changes will be reflected on the Operator Control Panel.

HCF Control

The HCF Control page is displayed when you select HCF Control if optional HCF is installed.

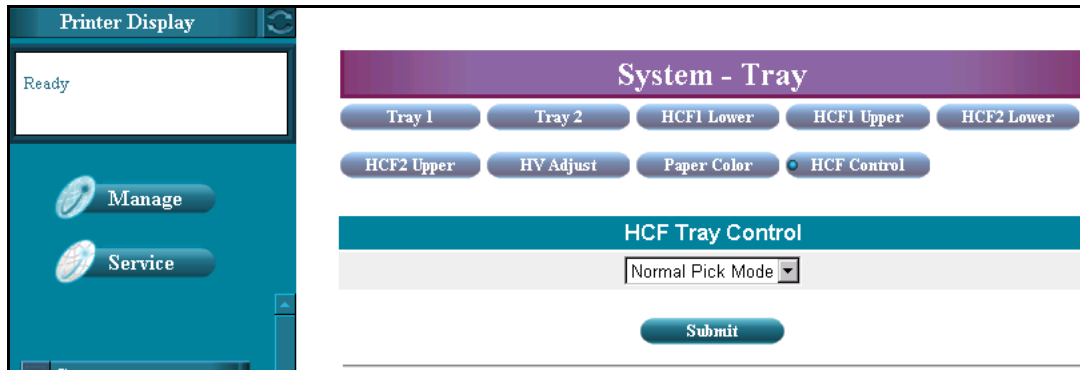


Figure 6-23. System-Tray (4)

You can select “Normal Pick Mode” or “Prior Pick Mode”.

☐ Normal Pick Mode

The printer feeds a paper from the HCF tray after last paper is fed from the standard tray (Tray 1/2) when the tray is switched from the standard tray to the HCF tray.

In this mode, there is an interval between last paper fed from the standard tray and first paper fed from the HCF tray.

☐ Prior Pick Mode

When the tray is switched from the standard tray to the HCF tray, the printer starts to feed a paper from the HCF tray before feeding a paper from the standard tray if the data processing of the paper fed from the HCF has completed.

The paper fed from the HCF tray stops at the HCF exit, and is fed continuously after last paper fed from the standard tray.

The tray switching time at Prior Pick Mode is shorter than Normal Pick Mode.

However more papers may be wasted than Normal Pick Mode when paper jam or an error occurred.

Also there are some limitations when using this mode. See [“Printer Notice” on page 5-7](#) for detail.

The settings on this page reflect what is set on the Operator Control Panel. If you make changes to this page and click the **Submit** button, the changes will be reflected on the Operator Control Panel.

System-Paper Output

The System-Paper Output page displays the stacking level of the each stackers.

The settings on this page reflect what is set on the Operator Control Panel. If you make changes to this page and click the **Submit** button, the changes will be reflected on the Operator Control Panel.

Stacker	Short Paper	Long Paper
Container1 Lower	100%	100%
Container1 Upper	100%	100%
Container2 Lower	100%	100%
Container2 Upper	100%	100%

Figure 6-24. System-Paper Output

System-Virtual Printer

The System-Virtual Printer page provides access to the System-Virtual Printer configuration Web pages. These pages give you the power to configure your default printer and VPT network printers.

The virtual printers available to you depend on the options installed on your system; therefore, all of the examples shown on pages these five pages may not be applicable.

Click the appropriate button to configure, delete, or add a virtual printer.

For additional information, refer to the *VPT Configuration and Installation* manual

	Default	Non-Virtual Printer Input
<input checked="" type="radio"/>	Default	
<input type="radio"/>	TEXT	TCP Port = 9100
<input type="radio"/>	vp-pcl	TCP Port = 3101
<input type="radio"/>	postscript	TCP Port = 3102
<input type="radio"/>	ascii_portrait	TCP Port = 3104
<input type="radio"/>	ascii_landscape	TCP Port = 3105
<input type="radio"/>	lp_portrait	TCP Port = 3106
<input type="radio"/>	lp_landscape	TCP Port = 3107
<input type="radio"/>	pdf	TCP Port = 3109
<input type="radio"/>	tiff	TCP Port = 3110
<input type="radio"/>	pclxl	TCP Port = 3112
<input type="radio"/>	ipds	TCP Port = 5001
<input type="radio"/>	prt2file	TCP Port = 7101

Configure **Delete** **New**

'Delete' operation is ignored for Default channel.

'New' button will create a new channel.

Figure 6-25. System-Virtual Printer

General

Use this page to edit the Channel Name, Emulation, Protocol, Spooling, LPD Banner Page and Accounting Slip Sheet. Note that if the selected channel is Default, the channel name cannot be edited. There can be more than one protocol for a channel; however, NetWare and Options are only available if the optional NIC card is installed.

Following figure will be displayed when the optional NIC card is installed.

The screenshot shows a web interface for configuring a virtual printer. On the left is a sidebar with a 'Printer Display' status window showing 'Ready'. Below it are 'Manage' and 'Service' buttons. A menu lists 'Status', 'System' (selected), and 'Configuration'. The 'System' menu includes 'General', 'Tray', 'Paper Output', 'Virtual Printer', 'Accounting', 'Jobs', and 'Serial No.'. The main content area is titled 'System - Virtual Printer' and has tabs for 'General', 'Paper Handling', 'PCL', 'NetWare', 'AppleTalk', and 'Options'. The 'General' tab is active, showing 'Channel Name: vp-pcl'. Below this are three sections: 'General' with fields for 'Channel Name' (vp-pcl), 'Emulation' (PCL), and 'Protocol' (TCP/IP Port: 3101, NetWare*, AppleTalk*); 'LPD Banner Page' with a 'Disabled' dropdown; and 'Accounting Slip Sheet' with a 'Disabled' dropdown. A 'Submit' button is at the bottom. Footnotes state: '(**)Configuration of the file server is required' and '(***)Reset is required to activate modification'.

System - Virtual Printer			
General	Paper Handling	PCL	NetWare
AppleTalk	Options		
Channel Name: vp-pcl			
General			
Channel Name	vp-pcl		
Emulation	PCL		
Protocol	<input checked="" type="checkbox"/> TCP/IP Port: 3101 <input type="checkbox"/> NetWare* ** <input type="checkbox"/> AppleTalk**		
LPD Banner Page			
LPD Banner Page	Disabled		
Accounting Slip Sheet			
Accounting Slip Sheet	Disabled		
(**)Configuration of the file server is required (***)Reset is required to activate modification			
Submit			

Figure 6-26. System-Virtual Printer-General (1)

Following figure will be displayed when the optional NIC card is not installed.

The Spooling is only available when the optional NIC card is not installed. The Maximum File Size edit box is shown whenever Raw Socket or LPD and Raw Socket is selected. The maximum value is 2,000,000,000 (2GB)

The AppleTalk Type is available when the optional NIC card is not installed. AppleTalk Type need to be set as “LaserWriter”.

The screenshot shows a web interface for configuring a virtual printer. On the left is a sidebar with a 'Printer Display' status window showing 'Ready'. Below it are 'Manage' and 'Service' buttons. A menu lists 'Status', 'System' (selected), and 'Configuration'. The 'System' menu includes 'General', 'Tray', 'Paper Output', 'Virtual Printer', 'Accounting', 'Jobs', and 'Serial No.'. The main area is titled 'System - Virtual Printer' with tabs for 'General', 'Paper Handling', and 'PCL'. The 'General' tab is active, showing 'Channel Name: vp-pcl'. The 'General' section includes 'Channel Name*' (vp-pcl), 'Emulation' (PCL), and 'Protocol' (TCP/IP Port: 3101, AppleTalk* Type:). The 'Spooling' section has a 'Spooling' dropdown set to 'None'. The 'LPD Banner Page' section has 'LPD Banner Page' set to 'Disabled'. The 'Accounting Slip Sheet' section has 'Accounting Slip Sheet' set to 'Disabled'. A note at the bottom states '(*)Reset is required to activate modification' and a 'Submit' button is at the bottom right.

Figure 6-27. System-Virtual Printer-General (2)

Also following options are available in this page.

- LPD Banner Page
Can be set to enable or disable. When set to enable, the printer will print a LPD Banner Page with each job.
- Accounting Slip Sheet
Can be set to enable or disable. When set to enable, the printer will print an Accounting Slip Sheet after the job. Refer to [“Accounting Slip Sheet” on page 6-67](#) for detail.

When IPDS is selected as Emulation, the port number of TCP/IP must be configure in the range of 1024 through 65535, except 2501, 2601 and 9100.

After making the desired changes, click **Submit** to update the settings.

Paper Handling

Use this page to set up the paper handling features of your Virtual Printer.

The screenshot shows a web interface for configuring a virtual printer. On the left is a sidebar with a 'Display' button at the top, followed by 'Manage' and 'Service' buttons. Below these are two expandable sections: 'Status' (containing 'General', 'Tray', 'Paper Output', 'Virtual Printer', 'Accounting', 'Jobs', and 'Serial No.') and 'Configuration' (containing 'System'). The main content area is titled 'System - Virtual Printer' and has tabs for 'General', 'Paper Handling' (which is selected), 'PCL', and 'NetWare'. Below the tabs are 'AppleTalk' and 'Options' buttons. The 'Paper Handling' section shows 'Channel Name: vp-pcl' and a list of settings: 'Paper Source' (Auto Select), 'Paper Size' (A4 LEF), 'Paper Type' (Plain), 'Paper Color' (White), 'Paper Output' (Autoselect), 'Copies(1-999)' (20), 'Collate' (Enabled), 'Job Offset' (Disabled), 'Duplex' (Disabled), 'Binding' (Short Edge), 'Edge-to-Edge' (Enabled), 'Rotation' (Disabled), 'Reverse Order' (Disabled), and 'Job Partial Page Print' (empty). A 'Submit' button is at the bottom right.

Figure 6-28. System-Virtual Printer-Paper-Handling

- **Paper Source**

Auto Select, 1, 2, HCF 1 Upper (when installed), HCF 1 Lower (when installed), HCF 2 Upper (when installed) or HCF 2 Lower (when installed).

- **Paper Size**

B5 (LEF), A4 (SEF), A4 (LEF), B4 (SEF), A3 (SEF), Letter (LEF), Letter (SEF), Letter Tab (LEF), A4 Tab (LEF), Folio (LEF), Folio (SEF), Legal (LEF), Legal (SEF), Ledger (SEF), Executive (LEF), Super B (SEF) or Custom (0.1 mm/0.1 in. increments).

- **Paper Type**

Plain, Bond, Color, Label, Letterhead, Preprinted, Prepunched, Recycled, Tracing Paper, Special or Other.

- **Paper Color**

White, Pink, Yellow, Buff, Goldenrod, Blue, Green, Color 1, Color 2, Color 3, Color 4,, Color 79 or Color 80.

- **Paper Output**

Autoselect, 1L, 1U, 2L (optional Container Stacker), 2U (optional Container Stacker), Sample Tray, Finisher with Pass Through (3rd party post device) and Finisher with finishing (3rd party post device).

NOTE:

*Do not select “Finisher with Pass Through” if the 3rd party post device does not support “Pass Through” function.
Only Paper Source, Paper Size, Paper Type, Paper Color and Paper Output are selectable with IPDS Virtual Printer.*

- Copies
0-999
- Collate
Enable or Disable
- Job Offset
Enable or Disable
- Duplex
Enable or Disable
- Binding
Long edge or Short Edge
- Edge-to-Edge
Enable or Disable. When enabled the printable area is the same as the physical page size.
- Rotation
Enable or Disable. When enabled the print image is rotated 180 degree.
- Reverse Order
Enable or Disable. When enabled the printer prints a job by reverse page order.
- Job Partial Page Print
This option provides the partial page printing of the job. Printer prints specified page number or page range by this option. Following are input example.
 - Specifies multiple page number separated by Comma.
example; 1, 3, 6 ... Prints 1, 3 and 6 page.
 - Specifies page range by using a Hyphen.
example; 4-8 ... Prints from 4 page to 8 page.
 - Combination of separate page and page range.
example; 1-4, 10 ... Prints from 1 page to 4page, and 10 page.Printer prints all pages of a job if no character is specified.

After making the desired changes, click **Submit** to update the settings.

PCL

Use this page to configure the PCL Virtual Printer.

Printer Display Ready

Manage

Service

Status

System

- General
- Tray
- Paper Output
- Virtual Printer
- Accounting
- Jobs
- Serial No.

Configuration

System - Virtual Printer

General Paper Handling **PCL** NetWare

AppleTalk Options

Channel Name: vp-pcl

PCL

Page Orientation: Portrait

Page Length (5 - 127): 60

Line Termination: CR->CR; LF->LF; FF->FF

Line Wrap: ☐ On ☒ Off

Font

Source: Internal

Number: 23

Symbol Set: PC-8

Height (4 - 999.75): 12 points

Pitch (0.44 - 99.99): 10 cpi

Submit

Figure 6-29. System-Virtual Printer-PCL

- **Page Orientation**
Selects portrait or landscape
- **Page Length**
Sets the page length value. Values are 5-127 lines.
- **Line Termination**
Selects line termination.
- **Line Wrap**
Selects on or off to change automatic line wrap function.
- **Font**
Selects PCL font parameters.

Above parameters are only available when the printer is received a job which is not specified these parameters. After making the desired changes, click **Submit** to update the settings.

PostScript

Use this page to configure the PostScript Virtual Printer.

The screenshot shows a web interface for configuring a virtual printer. On the left is a sidebar with a 'Printer Display' section showing 'Ready' and buttons for 'Manage' and 'Service'. Below these are 'Status' and 'System' links. The main area is titled 'System - Virtual Printer' and contains tabs for 'General', 'Paper Handling', 'PostScript' (selected), and 'NetWare'. There are also 'AppleTalk' and 'Options' buttons. The 'PostScript' section shows 'Channel Name: postscript' and a 'PostScript I/O Mode' dropdown menu set to 'Normal'. A 'Submit' button is at the bottom.

Figure 6-30. System-Virtual Printer-PostScript

- **PostScript I/O Mode**

Selects following mode for PostScript.

- ☐ Normal

Use for ASCII data.

- ☐ Raw

Use for Binary data.

- ☐ TBCP

Use for TBCP mode to return the printer status to the host PC.

After making the desired changes, click **Submit** to update the settings.

IPDS

Use this page to configure the IPDS Virtual Printer.

The screenshot shows a web interface for configuring a virtual printer. On the left is a sidebar with a 'Printer Display' header and a status message 'Printing PM Counter Exceeded'. Below this are 'Manage' and 'Service' buttons, followed by a menu with 'Status' and 'System' (selected). Under 'System' are links for 'General', 'Tray', 'Paper Output', and 'Virtual Printer'. The main content area is titled 'System - Virtual Printer' and has two tabs: 'General' (selected) and 'Paper Handling'. It shows 'Channel Name: ipds' and a configuration table:

General	
Channel Name	ipds
Emulation	IPDS
Protocol	TCP/IP Port: 5001

Below the table is a note: '(*)Reset is required to activate modification' and a 'Submit' button.

Figure 6-31. System-Virtual Printer-IPDS

■ Protocol

Enter TCP/IP port number for IPDS.

The port number of IPDS PORT must be configurable in the range of 1024 through 65535, except 2501, 2601 and 9100.

The factory default is 5001.

Netware

Use this page to configure the Netware Virtual Printer. This page is only displayed when the optional NIC card is installed.

Printer Display

Ready

Manage

Service

• Status

• System

- General
- Tray
- Paper Output
- Virtual Printer
- Accounting
- Jobs
- Serial No.

• Configuration

System - Virtual Printer

General Paper Handling PostScript **NetWare**

AppleTalk Options

Channel Name: PSA00112E

NetWare

☒ Queue Server

NDS Tree

NDS Context

File Servers [Configure Bindery File Servers](#)

Configure Service Bindery File Servers ☐ Remove ☐ Add

☐ Remote Printer: Print Server is required to set this.

Printer Number (0 - 255)

Print Server

Submit

Figure 6-32. System-Virtual Printer-Netware

- Queue Server
Sets this to use for print server mode.
- NDS Tree
Enter the name of the NDS Tree in which the selected Virtual Printer is registered.
- NDS Context
Enter the name of the NDS Context in which the selected Virtual Printer is registered.
- File Servers
The name of the Netware file server in which the printer is registered in Binary Mode is displayed. By clicking “Configure Binary File Servers”, the display jumps to the file server setting screen.
- Configure Service Bindery File Servers
To register in the Binary Mode, enter the name of the Netware file server in which the selected Virtual Printer is registered and put a check mark on “Add”. To delete a registered file server on print server, select the desired file server or print server and put a check mark on “Remove”. The word “print server” stated here means a print server that has been registered in the remote printer mode.
- Remote Printer

Sets this to use for remote printer mode.

- **Printer Number**

Enter the registered printer number of which the selected Virtual Printer is registered in the print server on the Netware server.

- **Print Server**

Enter the name of the print server on the Netware server in which the selected Virtual Printer is registered. Thus the print server is registered. The registered print server is displayed on “Configure Service Bindery File Servers”.

After making the desired changes, click **Submit** to update the settings.

AppleTalk

Use this page to configure the AppleTalk Virtual Printer. This page is only displayed when the optional NIC card is installed.

The screenshot shows a web interface for configuring a virtual printer. On the left is a sidebar with a 'Printer Display' section showing 'Ready' and buttons for 'Manage', 'Service', and 'Status'. The main area is titled 'System - Virtual Printer' and contains tabs for 'General', 'Paper Handling', 'PostScript', 'NetWare', 'AppleTalk', and 'Options'. The 'AppleTalk' tab is selected. Below the tabs, the 'Channel Name' is 'PSA00112E'. Under the 'AppleTalk' section, the 'AppleTalk Type' is set to 'LaserWriter' in a text box, with a 'Submit' button below it.

Figure 6-33. System-Virtual Printer-AppleTalk

AppleTalk type needs to be set as “LaserWriter”.

After making the desired changes, click **Submit** to update the settings.

Options

This page is only available for AppleTalk Virtual Printer when the optional NIC card is installed.

The screenshot shows a web interface for a virtual printer. On the left is a sidebar with a 'Printer Display' section showing 'Ready' and buttons for 'Manage' and 'Service'. Below these are 'Status' and 'System' buttons. The main content area is titled 'System - Virtual Printer' and features a row of tabs: 'General', 'Paper Handling', 'PostScript', 'NetWare', 'AppleTalk', and 'Options'. The 'Options' tab is active. Below the tabs, the 'Channel Name' is 'PSA00112E'. The 'Options' section contains a 'Filter' dropdown menu currently set to 'AppleTalk Binary'. Below this is a checkbox labeled 'Raw TCP port job is queued if printer is busy', which is currently unchecked. A 'Submit' button is located at the bottom right of the options section.

Figure 6-34. System-Virtual Printer-Options

- Filter

Selects Filter for AppleTalk protocol.

- ☐ None

Nothing to change.

- ☐ LF to CRLF

Change LF code to CR+LF code.

- ☐ AppleTalk Binary

This Filter is used for Font download.

- ☐ ASCII to PostScript

Change text data to PostScript data.

- Raw TCP port job is queued if printer is busy

Click the check box at the left to enable this feature. Then the setting becomes effective.

After making the desired changes, click **Submit** to update the settings.

System-Accounting

The System Accounting page displays detailed accounting information that you can use to monitor and control your printer resources.

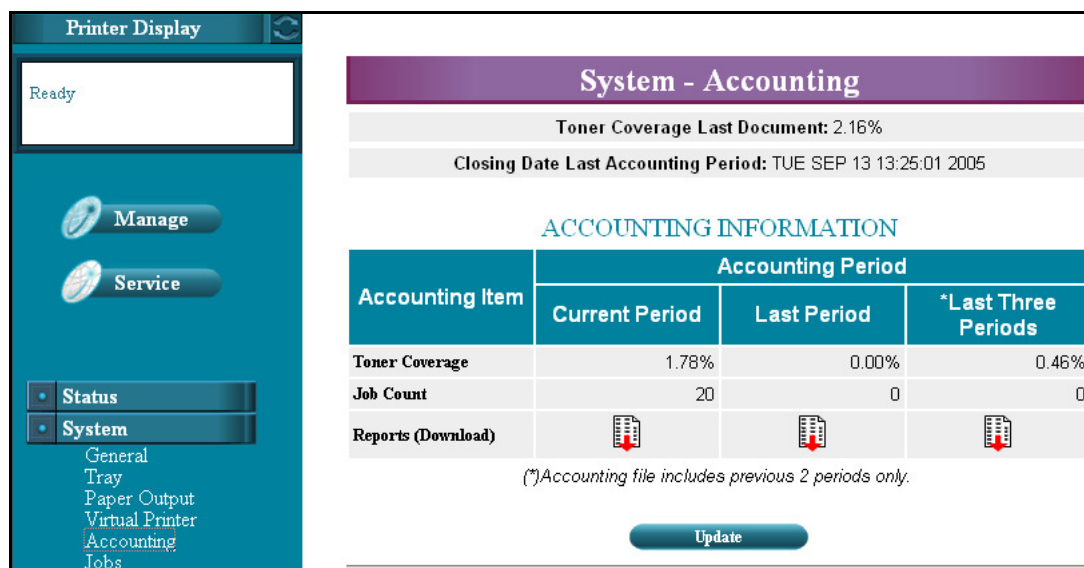


Figure 6-35. System-Accounting

The accounting information displayed on the web page includes:

- The percent of toner coverage for the last printed document, current billing period, last billing period, and the last three billing periods.
- The closing date of the period.
- The job counts for the current billing period, last billing period, and the last three billing periods.

NOTE:

The Current Period value is increased when a page is printed.

For details on using the accounting information, refer to [“Using the Accounting File” on page 6-64](#).

Click **Update** to refresh the display.

System-Jobs

The System-Jobs page displays all of the jobs in the system. For each job, all available information is displayed.

Jobs can be monitored or cancelled from this page. To cancel a job, check the box in the Select column for the job(s) you want to cancel and click **Cancel Job**. If you want to clear all of job(s), Click **Clear all jobs**. Click **Update** to refresh the display.

	Document	Copy	Page	User	Time	*Status
<input type="checkbox"/>	"Status Page"	1/1	1		FRI SEP 30 02:14:07 2005	A

(*) C: Cancel, P: Pause, A: Active(Processing)

Figure 6-36. System-Jobs

System-Serial Number

The System Serial Number page displays the serial number for the controller board.

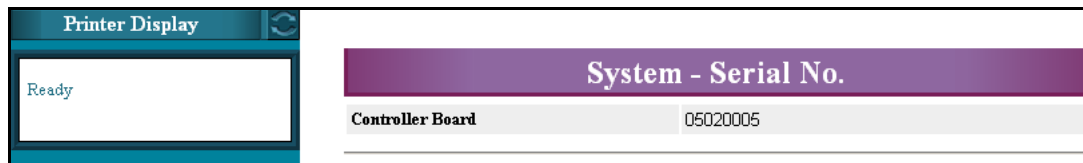


Figure 6-37. System-Serial Number

Manage Configuration Options

The Manage Configuration menu allows access to configuration pages. It is designed for System Administrator use and is password protected.

Table 6-5. Manage Configuration Options

Option	Description
General	Displays the customer information, printer information, and service contact information.
Events	Provides access to the Event reporting setup for Paper Jams, Toner Low, and Accounting.
Configuration	Provides access to the System Configuration pages including Password, Miscellaneous, Calendar, and PCL Input Tray Mapping.
Communication	Provides access to the network configuration pages.

Configuration-General

The Configuration General page lets you set up or modify the customer information, printer information, service contact information, and accounting information. Enter information and click **Submit**.

Configuration - General	
Customer	
Company Legal Name	The Printer Company
Phone Number	(800) 555-1212
Fax Number	(800) 555-1213
Street Address	123 Business Street
City, State/Region, Zip/Postal Code	Simi Valley, CA 93065
Country	USA
Printer	
Name	EMP-156
Location	Simi Valley
Service Contact	
Name	John Smith
Phone Number	(800) 555-1111
Fax Number	(800) 555-1112
E-mail	js@service.com
Accounting Information	
Accounting Period Start Day of the Month:	1
Submit	

Figure 6-38. Configuration-General

Configuration-Events

The Configuration Events page lets you select events that will generate e-mail notification. It also allows you to set the value of the paper jam warning. Use the checkbox to select E-mail notification for a specific event, then click the Rolodex icon to select the e-mail recipients. Each event can have its own list of recipients. Click **Submit** to enter.

Configuration - Events		
Non Paper Jam Error	A report is sent when error occurs.	<input type="checkbox"/>
Jam Error Warning	A report is sent when the number of jams per 1000 pages in the last 4 hours period exceeds this value. 3	<input type="checkbox"/>
Toner Low	A report is sent when engine detects a low toner condition.	<input type="checkbox"/>
Accounting	A report is sent when the end of accounting period occurs.	<input type="checkbox"/>

Submit

Figure 6-39. Configuration-Events

Address Book Pop-Up

The Address Book pop-up is displayed when the Rolodex-icon on the Events page is clicked. Use the checkbox to select the recipients of an event notification. You can also modify or delete names and addresses on this page. Use the trash can icon to delete an individual name, or the checkbox to delete multiple names.

	Name of the Recipient	e-mail Address
<input checked="" type="checkbox"/>	Jason Smith	jsmith@iservice.com
<input type="checkbox"/>	Lewis Doe	ldoe@himps.com
<input type="checkbox"/>	Joe Coogar	jcoogar@melina.com
<input type="checkbox"/>	Mandy Hammington	mandyh@ompress.com
<input type="checkbox"/>	Monica Gilbert	monicagilbert@travelhere.com
<input checked="" type="checkbox"/>	ghdfgh	fhfg@fgdsfg.dfg
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

Delete Selected Save Close

Figure 6-40. Address Book Pop-Up

NOTE:

Names appearing in light blue cannot be removed or modified

Configuration-Configuration

Password

The Configuration Password page lets you modify the configuration password. After filling in the required information, click **Submit** to update the password.

The screenshot shows a web interface for printer configuration. On the left, a sidebar contains a 'Printer Display' section with a 'Ready' status and a list of menu items: 'Manage', 'Service', 'Status', 'System', and 'Configuration'. The main content area is titled 'Configuration - Configuration' and features four tabs: 'Password', 'Misc', 'Calendar', and 'Tray Map'. The 'Password' tab is selected, displaying two input fields labeled '*Enter New Password' and 'Confirm New Password', followed by a 'Submit' button. A note below the fields states: '(*) Password is an integer between 0 - 65535. If 0, password is disabled'.

Figure 6-41. Configuration-Configuration-Password

Miscellaneous

The Miscellaneous page allows you to view or modify the country code. It also allows you to Specify and enable or disable energy save time. After making the desired change, click **Submit** to update the setting.

The screenshot shows a web interface for printer configuration. On the left is a sidebar with 'Printer Display' at the top, a 'Ready' status indicator, and buttons for 'Manage' and 'Service'. Below these are expandable sections for 'Status', 'System', and 'Configuration'. The 'Configuration' section is expanded, showing sub-options: 'General', 'Events', 'Configuration', and 'Communication'. The main content area is titled 'Configuration - Configuration' and has tabs for 'Password', 'Misc', 'Calendar', and 'Tray Map'. The 'Misc' tab is selected, showing the 'Miscellaneous' settings table. The table has the following rows: 'Country Code' with a text input containing '1'; 'Energy Save Time (15 - 230)' with radio buttons for 'Enabled' (selected) and 'Disabled', and a text input for '15' followed by 'Minutes'; 'Auto Online' with a dropdown menu set to 'Enabled'; 'Output Cascade - Cascade Priority' with a dropdown menu set to 'Lower to Upper'; 'Output Cascade - Cascade on CS Open' with a dropdown menu set to 'Stop'; and 'Cover Insert Mode' with a dropdown menu set to 'Cover Insert'. A 'Submit' button is located at the bottom right of the settings table.

Figure 6-42. Configuration-Configuration-Miscellaneous

- Country Code

Use the appropriate Telephone Country Code. A complete list is available in your telephone book or on the Internet. Country Code is not necessarily related to language.

- Energy Save Time

Set to enable or disable. When enabled the value range is 15 - 230 minutes.

- Auto Online

Set to Enable or Disable. When set to enable, printer automatically return from offline to online about 7 minutes elapsed after last OCP operation in offline state. When set to disable, printer never return to online until the “resume/online” button is pressed.

- Output Cascade - Cascade Priority

Defines a switching priority of container stacker when auto cascading.

- Output Cascade - Cascade on CS Open

Defines the behavior when open switch of container stacker is pressed during printing by auto cascade. When set to “Stop”, printer stops printing. When set to “Continue”, printer switches the stacker and continue to print.

- Cover Insert Mode

Defines the mode of the Cover Inserter when it is installed. Set to “Cover Insert” when Cover Inserter is used. Set to “Bypass” when Cover Inserter is not used.

Calendar

The Calendar page lets you view or modify the system date and time information. To modify any of these settings, make the desired changes, and click **Submit** to update the settings.

Printer Display Ready

Configuration - Configuration

Password Misc **Calendar** Tray Map

CALENDAR

Time Zone

GMT

☐ Use Time Server

Time Server	IP Address
Primary	
Secondary	

Protocol: TIME

Synchronization Time: 0

DATE AND TIME

☒ Set Manually

Year	Month	Day	Hour	Min
2006	3	7	13	51

☐ Change Time

☐ Use Daylight Saving Time

☐ Change Daylight Saving Time Dates

Transition	Month	Day	Hour
Start with	3	1	2
End with	10	1	2

Submit

Figure 6-43. Configuration-Configuration-Calendar

- Time Zone
Selects Time Zone.
- Use Time Server
If selected, enter the Time Server IP Address. Protocol and Synchronization Time can be selected.
- Set Manually
Sets Date and Time manually.

PCL Input Tray Mapping

PCL Input Tray Mapping allows you to select an individual tray mapping for the printer. You may override the default printer Input Tray Mapping for a job by using the Input Tray Selection mode command. See the **ESC [X[#]J** command and the Tray Group Code sections in the PCL Programming Guide.

Configuration - Configuration

Password Misc Calendar **Tray Map**

PCL Input Tray Mapping

Default mapping: 100/200

ID	100 200	101 201	102 202	103 203	104 204	105 205	106 206	107 207
0	0	0	321456	2	1	0	...	0
1	1	3	1	1	1	2	...	1
2	2	4	2	2	2	4	...	4
3	3	4	3	3	3	4	...	4
4	4	2	4	3	3	1	...	5
5	5	1	5	5	5	3	...	2
67	0	0	321456	2	1	0	...	0
68	0	0	321456	2	1	0	...	0
69	0	0	321456	2	1	0	...	0

Submit

Figure 6-44. Configuration-Configuration-PCL Input Tray Mapping

The **Submit** button at the bottom will transfer your new selections to the printer. These selections will become active the next time the PJL environment values are set to their default values. This happens when:

- PJL mode is entered with a Universal Exit Language (UEL) command.
- a PJL End Of Job (EOJ) command is processed.
- a PJL INITIALIZE command is processed.
- a PJL RESET command is processed.
- the printer is reset to the Factory default from the OCP or SNMP.

There are five fixed and two custom tray mappings available. The fixed tray mappings are selected by the **ESC [X{#]J** command with a parameter in the range 100-105 or 200-205. The custom Input Tray Mappings are selected with a parameter in the range 106-107 or 206-207. All of the PCL Input Tray Mappings are displayed on the PCL Input Tray Mapping web page and the custom Input Tray Mappings may be modified using this interface. Clicking the trash can icon at the top of one of the custom Input Tray Mappings will clear all entries to zero. The “ID” value on the page is the parameter for the PCL command **ESC &[#{#]H** (range 0..69) used to select a tray or group of trays.

Tray Map

Clicking on the “...” icon for an “ID” will activate a pop-up window to help you configure the tray mapping for that ID



Figure 6-45. Tray Map

For detailed information on tray mapping and grouping, refer to the PCL Programming Guide, “Paper Source”.

Configuration-Communication

Network(AUX) (TCP/IP)

The Network(AUX) (TCP/IP) page allows you view and modify the TCP/IP environment configuration settings for the Network(AUX). After making any desired changes, click **Submit** to update the settings.

This page is available when the optional NIC is not installed.

Printer Display: Ready

Manage

Service

• Status

• System

• Configuration

General

Events

Configuration

Communication

Configuration - Communication

TCP/IP AppleTalk

TCP/IP

Enabled Services

- lp
- text
- vp-pcl
- postscript
- ascii_portrait
- ascii_landscape
- lp_portrait
- lp_landscape
- pclxl
- prt2file

IP Address: 10 204 81 51

Subnet Mask (*): 255 255 255 0

Gateway Address: 10 204 81 254

SMTP Server Address: 0 0 0 0

Host Name:

DNS Server Address: 0 0 0 0

Domain Name:

HTTP Port (0 - 65535) (*): 80

Boot Method: STATIC

Internet Printing Protocol (IPP): Disabled

Direct printing with TCP (*): Enabled

LPR/LPD (*): Enabled

FTP (*): Disabled

(*) Reset is required to activate modification.

Submit

Figure 6-46. Configuration-Communication-Network(AUX) (TCP/IP)

- Enabled Services
Displays available virtual Printers for TCP/IP.
- IP Address
Sets IP Address for this printer.
- Subnet Mask
Sets Subnet Mask.
- Gateway Address

Sets Gateway Address.

■ SMTP Server Address

Sets SMTP server Address to use for email notification.

■ Host Name

Enter the Host Name

■ DNS Server Address

Enter the DNS Server Address.

■ Domain Name

Sets domain name for this printer.

■ HTTP Port

Sets HTTP port, Value are 0-65535.

■ Boot Method

Selects STATIC or DHCP to set IP Address of this printer.

■ Internet Printing Protocol(IPP)

Enables or disables IPP.

NOTE:

IPP is only available with the Network(AUX).

■ Direct printing with TCP

Selects enables or disables direct printing with TCP protocol.

■ LPR/LPD

Selects enables or disables to print with LPR/LPD.

■ FTP

Selects enables or disables FTP protocol. If you want to get captured data, you need to set as “Enabled”.

Network(AUX) (AppleTalk)

This page allows you to view and modify the AppleTalk environment configuration settings for the Network(AUX). After making any desired changes, click **Submit** to update the settings.

This page is available when the optional NIC is not installed.

The screenshot shows a web utility interface for configuring AppleTalk settings. On the left is a sidebar with a 'Printer Display' section showing 'Ready' and buttons for 'Manage' and 'Service'. Below these is a 'Status' button. The main content area is titled 'Configuration - Communication' and has two tabs: 'TCP/IP' and 'AppleTalk', with 'AppleTalk' being the active tab. Under the 'AppleTalk' tab, there are three configuration rows: 'Apple Talk Enabled (*)' with radio buttons for 'Enabled' (selected) and 'Disabled'; 'Enabled Services (Max 15)' with the text 'PSA002E70'; and 'AppleTalk Zone (*)' with an empty text input field. A note below the input field states '(*) Reset is required to activate modification.' and a 'Submit' button is at the bottom right of the configuration area.

Figure 6-47. Configuration-Communication-Network(AUX) (AppleTalk)

- **AppleTalk Enabled**
Sets AppleTalk protocol to Enable or Disable, Reset is required to active modification. Default is “Enabled”.
- **Enabled Services**
Displays the VPT name for AppleTalk protocol.
- **AppleTalk Zone**
Displays the AppleTalk Zone. Reset is required to activate modification.

Network(NIC) (TCP/IP)

If the Network Interface Card (NIC) is installed, this page allows you to view and modify the TCP/IP environment configuration settings.

This page is only available when the optional NIC is installed.

Printer Display

Ready

Manage

Service

- **Status**
- **System**
- **Configuration**
 - General
 - Events
 - Configuration
 - Communication

Configuration - Communication

Network (AUX) • **Network (NIC)**

• **TCP/IP** NetWare AppleTalk

TCP/IP

Enabled Services
(Max of port assigned services is 15)

[lp](#)
[text](#)
[yp-pcl](#)
[postscript](#)
[ascii_portrait](#)
[ascii_landscape](#)
[lp_portrait](#)
[lp_landscape](#)
[pclxl](#)

IP Address	10	204	81	9
Subnet Mask (*)	255	255	255	0
Gateway Address	10	204	81	254
SMTP Server Address	0	0	0	0
Host Name	<input type="text"/>			
DNS Server Address	0	0	0	0
Domain Name	<input type="text"/>			
HTTP Port (0 - 65535) (*)	80			
Boot Method	STATIC ▾			
Internet Printing Protocol (IPP)	Disabled ▾			

(*) Reset is required to activate modification.

Submit

Figure 6-48. Configuration-Communication-Network(NIC) (TCP/IP)

Network(NIC) (Netware)

This page allows you to view and modify the configuration settings for the optional Network Interface Card (NIC) in a NetWare environment. After making any desired changes, click Submit to update the settings.

This page is only available when the optional NIC is installed.

The screenshot shows a web interface for configuring network settings. On the left is a sidebar with a 'Printer Display' section showing 'Ready' and a 'Manage' section with 'Service' and 'Configuration' links. The main area is titled 'Configuration - Communication' and has tabs for 'Network (AUX)' and 'Network (NIC)'. Under 'Network (NIC)', there are buttons for 'TCP/IP', 'NetWare' (selected), and 'Apple Talk'. The 'NetWare' section contains the following fields:

NetWare	
Netware Enabled	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Enabled Services (Only 1 service is allowed)	PSN00112E
Active Servers and Queues	None
Frame Type	AutoSelect
NetWare Password	<input type="checkbox"/> Modify Password Enter New Password: <input type="text"/> Confirm New Password: <input type="text"/>
Configure Bindery File Servers	<input type="text"/> <input type="button" value="Remove"/> <input type="button" value="Add"/>

A 'Submit' button is located at the bottom right of the configuration area.

Figure 6-49. Configuration-Communication-Network(NIC) (Netware)

- **NetWare Enabled**
Sets NetWare protocol to Enable or Disable.
- **Enabled Service**
Displays VPT name for NetWare protocol.
- **Active Servers and Queues**
Displays NetWare Server name and Queue name.
- **Frame Type**
Selects Frame Type from pull-down menu.
- **Network Password**
Sets Password for Network Servers.
- **Configure Bindery File Servers**
This menu do not need any changes.

Network(NIC) (AppleTalk)

This page allows you to view and modify the configuration settings for the optional Network Interface Card (NIC) in an AppleTalk environment. After making any desired changes, click Submit to update the settings.

This page is only available when the optional NIC is installed.

The screenshot shows a web interface for configuring network settings. On the left is a sidebar with a 'Printer Display' section showing 'Ready' and buttons for 'Manage' and 'Service'. Below these are links for 'Status', 'System', and 'Configuration'. The main content area is titled 'Configuration - Communication' and has tabs for 'Network (AUX)' and 'Network (NIC)'. Under 'Network (NIC)', there are tabs for 'TCP/IP', 'NetWare', and 'AppleTalk'. The 'AppleTalk' tab is active, showing a table with three rows: 'Apple Talk Enabled (*)' with radio buttons for 'Enabled' (selected) and 'Disabled'; 'Enabled Services (Max 15)' with the value 'PSA00112E'; and 'AppleTalk Zone (*)' with an empty text box. A note below the table states '(*) Reset is required to activate modification.' and a 'Submit' button is at the bottom.

AppleTalk	
Apple Talk Enabled (*)	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Enabled Services (Max 15)	PSA00112E
AppleTalk Zone (*)	<input type="text"/>

(*) Reset is required to activate modification.

Submit

Figure 6-50. Configuration-Communication-Network(NIC) (AppleTalk)

- **AppleTalk Enabled**
Sets AppleTalk protocol to Enable or Disable, Reset is required to active modification.
- **Enabled Services**
Displays the VPT name for AppleTalk protocol.
- **AppleTalk Zone**
Displays the AppleTalk Zone. Reset is required to activate modification.

Using the Accounting File

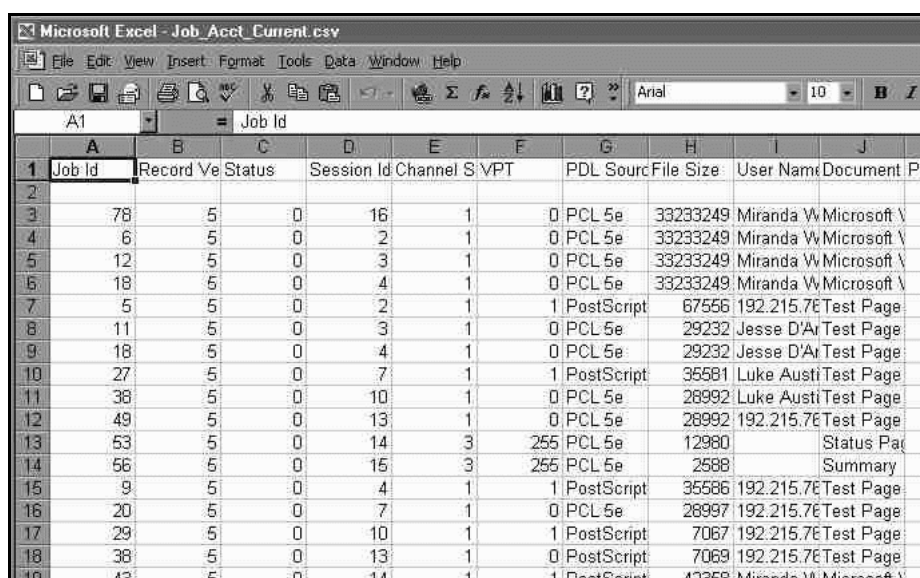
The System-Accounting web page, displays actual usage information for the latest job and for specific time periods. Authorized users can monitor paper and toner usage¹, as well as the number of pages left in the current PM cycle. The web page also displays comprehensive totals of current period counts and lifetime counts for all paper sizes, as well as the total number of sheets and total number of sides printed.

You can also download the accounting file to your desktop computer. The file is ideal for use in accounting programs to track and control printing resources.

The accounting file is updated each time a job enters the system. First, a detailed accounting record is created for each job. Then the accounting record is saved in the accounting file on the printer's hard drive. The file is in comma-delimited (.csv) format and can be imported into Excel or any accounting package that supports comma-delimited or ASCII formats.

To download the file, right-click on the Download Reports icon (if you are using Internet Explorer) and save the file with a new name in a new location.

The sample below shows the accounting file imported into an Excel worksheet. The fields in the accounting file are described on the following page.



	A	B	C	D	E	F	G	H	I	J
	Job Id	Record Ve	Status	Session Id	Channel S	VPT	PDL Sourc	File Size	User Name	Document
1	78	5	0	16	1	0	PCL 5e	33233249	Miranda V	Microsoft V
2	6	5	0	2	1	0	PCL 5e	33233249	Miranda V	Microsoft V
3	12	5	0	3	1	0	PCL 5e	33233249	Miranda V	Microsoft V
4	18	5	0	4	1	0	PCL 5e	33233249	Miranda V	Microsoft V
5	5	5	0	2	1	1	PostScript	67556	192.215.76	Test Page
6	11	5	0	3	1	0	PCL 5e	29232	Jesse D/Ai	Test Page
7	18	5	0	4	1	0	PCL 5e	29232	Jesse D/Ai	Test Page
8	27	5	0	7	1	1	PostScript	35581	Luke Austi	Test Page
9	38	5	0	10	1	0	PCL 5e	28992	Luke Austi	Test Page
10	49	5	0	13	1	0	PCL 5e	28992	192.215.76	Test Page
11	53	5	0	14	3	255	PCL 5e	12980		Status Pa
12	56	5	0	15	3	255	PCL 5e	2588		Summary
13	9	5	0	4	1	1	PostScript	35586	192.215.76	Test Page
14	20	5	0	7	1	0	PCL 5e	28997	192.215.76	Test Page
15	29	5	0	10	1	1	PostScript	7067	192.215.76	Test Page
16	38	5	0	13	1	0	PostScript	7068	192.215.76	Test Page
17	43	5	0	14	1	1	PostScript	42358	Miranda V	Microsoft V

Figure 6-51. Using the Accounting File

Table 6-6. Fields in the Accounting Records

Field Name	Description
Job Id	Internal job ID.
Record Version	Accounting file format version.
Status	Status of print job 0: Normal Completed 2: Canceled
Session Id	Internal session ID.
Channel Source	Input channel. 1: VPT channel 3: Offline print channel 4: Spooled LPD channel
VPT	VPT number. Default number is as follows. 0: lp 1: text 2: vp-pcl 3: postscript 4: ascii_portrait 5: ascii_landscape 6: lp_portrait 7: lp_landscape 8: pdf 9: tiff 10: pclxl 11: IPDS 12: PSAxxxxxx 13~: User created virtual printer 255: "Default" channel (Offline print)
PDL Source	PDL of print job. (Postscript, etc.)
File Size	File size in bytes.
User Name	User name.
Document Name	Document name.
Priority	Reserved.
Completed Sides	Completed page count.
Completed Copies	Completed copy count.
PDL Sides	Expected page count.
PDL Copies	Expected copy count.
Total Sets	Number of sets in the job.
Total Sheets	Expected sheet count.
Added Sides	Number of back sides generated for simplex pages (Duplex-Always mode only).
Jams	Count of jammed sheets.
Toner Coverage	Average toner coverage. (May be disabled at your installation. See your Service Technician for additional information.)
Date Created	Date of record creation.
Time Created	Time of record creation (i.e., end of job).
Duration	Duration of job in seconds (from start of job to Time Created).

Table 6-6. Fields in the Accounting Records

Field Name	Description
Media <i>n</i> Size*	2: Super B 3: B5 LEF 4: Letter SEF 5: Letter LEF 6: B4 SEF 8: A4 SEF 9: A4 LEF 10: A3 SEF 12: Folio SEF 13: Legal SEF 14: Ledger SEF 15: Custom Size 30: Legal LEF 31: Folio LEF 33: Executive LEF
Media <i>n</i> Type*	1: Plain 2: Bond 3: Color 4: Label 5: Letterhead 6: Pre-printed 7: Pre-punched 8: Recycled 9: Special 12: Tracing paper 13: Other
Media <i>n</i> Weight*	Media weight in lbs.
Media <i>n</i> Color*	1: White 2: Yellow 3: Pink 4: Buff 5: Goldenrod 6: Blue 7: Green 101~180: Custom Color 1 ~ Custom Color 80
Media <i>n</i> Hopper* (Input paper tray)	1: Tray 1 2: Tray 2 4: HCF1 Lower 8: HCF1 Upper 16: HCF2 Lower 32: HCF2 Upper 255: Auto tray selection
Media <i>n</i> Stacker* (Output paper tray)	1: Sample Tray 16: CS1 Lower 32: CS1 Upper 64: CS2 Lower 128: CS2 Upper 255: Auto stacker selection
Media <i>n</i> Sheet Count*	Number of sheets for this media selection.
Media <i>n</i> Side Count*	Number of page for this media selection.
* Media fields are repeated for each media selection in the job (24 maximum).	

Accounting Slip Sheet

If “Accounting Slip Sheet” option in the System-Virtual Printer menu is enabled, the Accounting Slip Sheet is printed after each job.

Accounting Slip Sheet is printed by using a paper which specified by System- Virtual Printer- Default- Paper Handling menu. Accounting Slip Sheet is printed out to the Sample Tray.

Following is an example of the Accounting Slip Sheet.

EMP156

Accounting Slip Sheet

Client IP Address: 192.0.0.1

Client Network Name: TEST-NETWORK

User Name: RPS

Document Name: C:/TEST01.ps

Department Name: TEST02

Charge Code: TEST03

Start Time: 04/06/2006 21:16:45

End Time: 04/06/2006 21:17:01

Total Time: 00:00:16

Total Sets: 1

Impressions per Set: 3

Total Impressions: 3

Total Added Impressions: 0

Total Sheets: 3

Lost Sheets: 0

Status: Completed

PS Comment

This is line #1 of PostScript Comment
And this is line #2.
And this is line #3.
And this is line #4.
And this is line #5.
And this is line #6.
And this is line #7.
And this is line #8.
And this is line #9.
And this is line #10.

PS Error Message

Times-Romen1 not found, using Courier.
Times-Romen2 not found, using Courier.
Times-Romen3 not found, using Courier.
Times-Romen4 not found, using Courier.
Times-Romen5 not found, using Courier.
Times-Romen6 not found, using Courier.
Times-Romen7 not found, using Courier.
Times-Romen8 not found, using Courier.
Times-Romen9 not found, using Courier.
Times-Romen10 not found, using Courier.
Times-Romen11 not found, using Courier.
Times-Romen12 not found, using Courier.
Times-Romen13 not found, using Courier.
Times-Romen14 not found, using Courier.
Times-Romen15 not found, using Courier.
Times-Romen16 not found, using Courier.
Times-Romen17 not found, using Courier.
Times-Romen18 not found, using Courier.
Times-Romen19 not found, using Courier.
Times-Romen20 not found, using Courier.
Times-Romen21 not found, using Courier.
Times-Romen22 not found, using Courier.
Times-Romen23 not found, using Courier.

Figure 6-52. Accounting Slip Sheet

Following is detail of each record.

■ Client IP Address

Records *ip address* specified by following PJL command in the print job.

@ PJL SET JOBATTR="=00=00ip_address=00=00=00=00=00"

■ Client Network Name

Records *network name* specified by following PJP command in the print job.

@ PJP SET JOBATTR="=00=00=00=00network_name=00=00=00"

■ User Name

Records *user name* specified by following PJP command in the print job.

@ PJP SET JOBATTR="user_name=00=00=00=00=00=00=00"

If PJP is not received, P command of the LPD control file in the print job is used.

■ Document Name

Records *job name* specified by one of following PJP command in the print job.

@ PJP JOB NAME="job_name"

@ PJP SET JOBATTR="=00job_name=00=00=00=00=00=00"

If PJP is not received, one of N, U or I command of the LPD control file in the print job is used.

■ Department Name

Records *department name* specified by following PJP command in the print job.

@ PJP SET JOBATTR="=00=00=00=00=00department_name=00=00"

■ Charge Code

Records *charge code* specified by following PJP command in the print job.

@ PJP SET JOBATTR="=00=00=00=00=00=00charge_code=00"

■ Start Time

Records a time (mm/dd/yy hh:mm:ss) that process of the print job is started.

■ End Time

Records a time (mm/dd/yy hh:mm:ss) that last page of the print job is out to the stacker.

■ Total Time

Records time (hh:mm:ss) from Start Time to End Time.

■ Total Sets

Records total print sets which were output to the stacker.

NOTE:

If the print job is non-collated, record value is always "1".

Do not change Number of Copy, Jog mode, Orientation and Output Stacker after first page in the job.

If the print job is canceled before the last page of first set is not out to the stacker, record value is "0".

■ **Impression per Set**

Records impressions (page images) in first set which was out to the stacker.

NOTE:

Impressions (page images) mean;

- Counts "1" at a simplex print page regardless of paper size.
 - Counts "2" at a duplex print page regardless of paper size.
 - Excluding Test Print, Reports, LPD Banner Page, Accounting Slip Sheet, and blank page added by Duplex Always mode.
-

■ **Total Impressions**

Records total impressions which were out to the stacker.

■ **Total Added Impressions**

Records total added impressions (blank pages added by Duplex Always mode) which were out to the stacker.

■ **Total Sheets**

Records total sheets output to the stacker.

NOTE:

Total Sheets mean;

- Counts "1" at a print page regardless of paper size or simplex/duplex.
 - Excluding Test Print, Reports, LPD Banner Page, and Accounting Slip Sheet.
-

■ **Lost Sheets**

Records lost sheets which were not out to the stacker though paper was picked from input tray.

■ **Status**

Record status of the printed job.

- Completed: The last page of the job was out to the stacker completely or the print job was aborted by disconnection.
- Canceled: the print job was canceled by OCP, Web or LPRM.

■ PS Comment

If the PostScript comment line in the PostScript header starts with “%% PS COMMENT:”, following character string is recorded as a PS Comment.

For example, if the header of PS file includes following lines;

%!PS

%%Title: PS Comment test

%% PS COMMENT: This is line #1 of PostScript Comment

%% PS COMMENT: And this is line #2.

then PS Comment on the Accounting Slip Sheet will be;

This is line #1 of PostScript Comment

And this is line #2

NOTE:

PS COMMENT lines are maximum 10 lines.

Each PS COMMENT characters are maximum 81 characters.

■ PS Error Message

Records PS Error Message if PostScript Error Message is generated in the printer. PostScript Error message is generated when PostScript error is occurred, or font substitution is occurred.

If PostScript error occurred, message starts with “%%[Error:”. If font substitution occurred, message starts with “<fontname> not found, using”.

NOTE:

PS Error Message appears only when the [PS Error Print] in the Service menu of the Web Utility is enabled. Contact your service technician for more information.

Appendix A

Specifications

What This Appendix Contains

This appendix contains specification information pertaining to the following topics.

- [Base Printer](#)
- [Consumables](#)

Specifications

Base Printer

Design and specifications are subject to change without notice.

Table A-52. Base Printer Specifications

Item	Specification
Imaging Method	Electro-Photography.
Exposure System	Semiconductor 4 laser beam (laser diode) scanning.
Image Resolution	600 x 600 dots per inch (dpi).
Warm-up Time	Less than 300 seconds after sleep mode at room ambient 68°F (20° C).
Continuous Print Speed in Simplex mode	Up to 156 pages per minute (ppm) A4/Letter/Legal (LEF).
Printable Area	Full size of the paper.
Guaranteed Printing Area	Inside area of following boundalies; 5mm from the leading edge of paper 5mm from the side edge of the paper 8mm from the trailing edge of the paper
Controller	Embedded controller with PowerPC 750FX 800MHz.
Memory Capacity	256MB
Maximum Monthly Print Volume	Up to 4,500,000 prints (A4/Letter)
Nominal Voltage	200/208/220/230/240/380/400/415 V
Nominal Frequency	50 Hz or 60 Hz.
Power Consumption (Standard Configuration)	4.6kW (Avarage)
Noise Level *	70 dBA in operation. 60 dBA in standby.
Operating Temperature and Humidity	Temperature range: 60° to 90°F (16° to 32°C). Humidity range: 20-80% RH (no condensation).
Recommended Operating Temperature and Humidity	Temperature range: 66.2° to 77°F (19° to 25°C). Humidity range: 40-60% RH (no condensation).
Dimensions (Standard Configuration)	2169 x 1350 x 1105mm (H x W x D).
Weight	860kg.
Product Life	90,000,000 images or 5 years, whichever comes first.

* Maschinenlärminformations-Verordnung - 3. GPSGV, 06.01.2004:
Der höchste Schalldruckpegel beträgt 70dB(A) oder weniger gemäß EN ISO7779

Consumables

The expected life of consumables as follows.

Table A-53. Consumables

Consumable	Life Expectancy
Toner	54,000 images (5% coverage)
Developer Mix	800,000 rotations (720,000 images)
Fuser Cleaning Web	600,000 - 200,000 images
Fine Filter	2,250,000 images (5% coverage)
Toner Bag	Exchange for every two toner supply

NOTE:

The projected life of the above consumables are based on 5% image coverage, on Xerox 4024 letter size 20 lb paper, or 90% print utilization.

The actual point at which the supplies should be replaced will vary with the type of materials you are printing.

Waste materials should be disposed of under conditions which meet all federal, state and local environmental regulations. Since regulations may vary from one region to another, check with the agency that governs waste disposal in your area for proper procedures.

The life expectancy of the consumables is calculated using the assumption that 90% of drum rotations result in printed pages. This allows for the extra rotations at the start and end of a printing cycle. Each rotation of the drum results in wear because of the drum cleaning brush and the charge/discharge cycles. If the jobs are short resulting in the printer stopping and starting frequently, then the consumable lifetime of the drum will be lower.

The life of fuser cleaning web "600,000 images" is based on the following conditions.

Stop frequency is once every 250 images, and web rolling-up interval is once every 60 images.

The life of fuser cleaning web "200,000 images" is based on the following conditions.

Stop frequency is once every 250 images, and web rolling-up interval is once every 20 images.

¹ Coverage is calculated per printed sheet and is defined as the ratio of area with toner to the total area of the sheet. Toner usage is based on 5% coverage when the toner density level is set to the default value (1.3 optical density for solid black areas printed on Xerox 4024 paper). The following items affect toner coverage: the printed image content, the paper used, and the condition and calibration of the printer. Actual toner usage may vary due to these factors.

Blank

OG	L	0 0	
----	---	-----	--

Appendix B

Paper Specifications

Media Guidelines

Several types of media can be used in the printer, provided they meet certain guidelines. This appendix provides criteria for purchasing print media. You will also find guidelines for printing on special print media.

General Media Recommendations

Use high-quality xerographic paper for printing applications. The paper should be of good quality, free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, and curled or bent edges.

There are many brands of high quality xerographic paper available to choose from. [Refer to “Paper Specifications” on page B-2](#) when purchasing paper.

Paper Specifications

Table B-1. Paper Specifications

Characteristics	Test Method	Recommendation
Paper Grade	(refer to note 1)	No. 1 or No. 4 Xerographic (Note 1)
Fiber Composition		100% chemical wood pulp
Color		White or pastel color
Ash Content	T413, ISO 2144 (refer to Note 2 and 4)	18% maximum
Filler		Kaolin or china clay (aluminosilicate) or calcium carbonate (Calcium carbonate to be less than 5%). Titanium dioxide or magnesium silicate may be added to improve brightness.
Grain Direction		Parallel to the long dimension (grain long)
CaCO ₃ Content		0% (paper that contains CaCO ₃ can drastically reduce fuser life)
Cutting Method		Rotary precision cut (Lenox, Will, or equivalent)
Cutting Tolerance		Length and width: ± 0.787 mm (± 0.031 in.) Squareness: all corners $90^\circ \pm 0^\circ 6'$
Acceptable Basis-Weight Range	D464, ISO 536 (refer to Note 3 and 4)	16 - 42 lb. bond (60 - 158 g/m ²), and 110 lb. Index. (199 g/m ²)
Caliper	T411, ISO 534 (refer to Note 2 and 4)	20 - 24 lbs. (75 - 90 g/m ²): 3.5 - 5.0 mils (90 - 127 μ m) 16 - 19 lbs. (60 - 72 g/m ²): 3.2 - 4.0 mils (81 - 102 μ m)
Smoothness (Sheffield)	UM 518, ISO 2494 (refer to Note 2 and 4)	20 - 24 lbs. (75 - 90 g/m ²): 100 - 200 Sheffield units 16 - 19 lbs. (60 - 72 g/m ²): 70 - 170 Sheffield units
Porosity (Gurley)	UM 524, ISO 3687 (refer to Note 2 and 4)	10 sec / 100 ml minimum
Coefficient of Static Friction	D 1894 (refer to Note 3 and 5)	0.35 to 0.62
Surface Sizing		Starch - Do not use synthetic surface sizing
Internal Sizing		Acid rosin or synthetic (alkylketene dimer or alkyl-succinic anhydride)
Stiffness (Taber)	T 489 (refer to Note 2)	16 - 19 lbs. (60 - 72 g/m ²): MD: 1.4 min./CD: 0.5 min. 20 - 24 lbs. (75 - 90 g/m ²): MD 1.7 - 4.5 min./CD: 0.8 - 2.4 min.
Moisture Content	D 644, ISO 287 (refer to Note 3 and 4)	3.7% to 5.5%
Surface Resistivity	D 257 (refer to Note 3 and 6)	5×10^9 to 1×10^{11} ohms

All tests conducted per TAPPI 402 or ISO 187, except moisture that pertains to the paper as packaged.

NOTE:

- 1) The No. 1 or No. 4 designation applies only in the U.S.
- 2) Testing method - Technical Association of the Pulp and Paper Industry (TAPPI).
- 3) Testing method - American Society for Testing and Materials (ASTM).
- 4) Testing method - International Organization for Standardization (ISO).
- 5) Use 127 mm/min (5.0 in./min.) pull rate.
- 6) Isolate the test specimen from the metal backing plate with a piece of smooth, nonconductive polyester film, at least 0.254 mm (0.010 in.) thick; use 100 volts.

Paper Weight

Paper weight (also referred to as basis weight) for the U.S. market is measured as the weight in pounds of a ream of paper in the basic size for that grade of paper. The basic size differs between the various grades of paper. For cross reference information of basis weight for different paper types, see the table below.

Using the metric system, basis weight is measured as the weight of one square meter of paper and is expressed in grams per square meter or g/m^2 .

General media weight guidelines for the printer are:

Table B-2. Paper Weight

PAPER TYPE (GRADE) U.S. MARKET				METRIC
	BOND* LEDGER* XEROGRAPHIC LASER	OFFSET*	INDEX*	
BASIC SIZE	17 in. x 22 in. 432 x 599 mm	25 in. x 38 in. 635 x 965 mm	25.5 in. x 30.5 in. 648 x 775 mm	g/m^2
BASIS WEIGHT	16	40	33	60
	20	50	42	75
	24	60	50	90
	28	70	58	105
	32	80	67	120
	36	90	75	135
	40	100	83	150
	42	105	90	163
	44	110	92	175
	53	135	110	199

NOTE:

Commercially available paper is in bold.

Paper denoted with () should not be used unless specifically formulated for laser printers. Refer to [page B-2](#) for additional information.*

All weights are for 500 sheets.

Paper Color

Colored paper refers to pastel-colored paper only. Dark colors may affect printer operation. Colored paper should meet the same specifications as white. It is also recommended that colored paper be tested for potential problems before ordering large quantities.

Paper Composition

Use paper made from 100% chemical wood pulp. Paper that contains mechanically-pulped wood or cotton is not recommended due to natural impurities, such as CaCO_3 , that can contaminate the surface of the photoconductor, thereby decreasing the life of the photoconductor and/or the fuser.

Do not use coated paper containing material that will melt, vaporize, offset, discolor, or release hazardous emissions when exposed to high temperatures.



CAUTION!

Do not use paper that contains CaCO_3 as it can drastically reduce fuser life.

Paper Cut

Paper cut is another significant factor affecting printer performance. The cut sheet is produced by cutting a larger stack of paper. If a dull cutter is used, the paper will have ragged edges, or what is called a “burr.” This burr can cause such problems as paper jam, multiple feed, and large amounts of paper dust. Refer to [“Paper Specifications” on page B-2](#) for additional information.

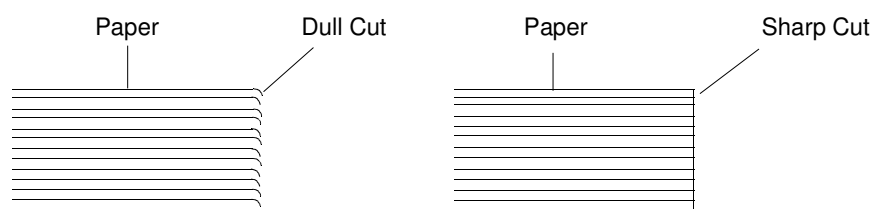


Figure B-1. Paper Cut

Paper Smoothness

Paper smoothness affects print quality and paper handling. Paper should not have a rough texture. A rough texture provides poor toner adhesion, particularly in “black fill” areas. Neither should the paper be too smooth, as this can also affect toner adhesion. Paper that is too smooth has inadequate friction and can cause paper handling difficulties. Do not use paper with embossed or raised surfaces. Spotty printing and misfeeding may occur. Refer to [“Paper Specifications” on page B-2](#) for additional information.

Paper Fusing

Paper used in the printer must withstand the effects of the fusing process. It should not melt, discolor, vaporize, offset, or delaminate at the temperature of 210°C (410°F) and pressure of about 250kPa (36.3k lbs/in^2).

Moisture

Moisture affects both paper curl and print quality. Excessive moisture can cause the following things:

- Wavy edges
- Tight edges
- Paper curl
- Faded printing

An increase in humidity can cause paper to develop wavy edges. This occurs because the edges absorb moisture while the rest of the ream remains unaffected. This can cause paper skewing and inability to pick paper. Wave is measured as shown below. Do not use paper with a wave of more than 2 mm.

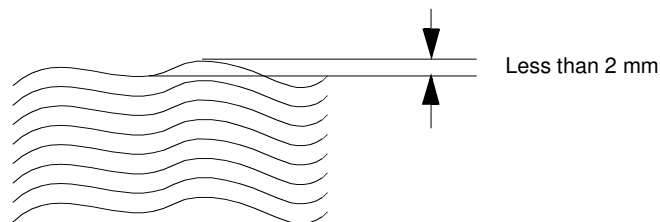


Figure B-2. Moisture (1)

If there is a decrease in humidity the edges can lose moisture. This causes them to contract resulting in tight edges. Tight edges are measured as shown below. Do not use paper with tight edges of more than 2 mm.

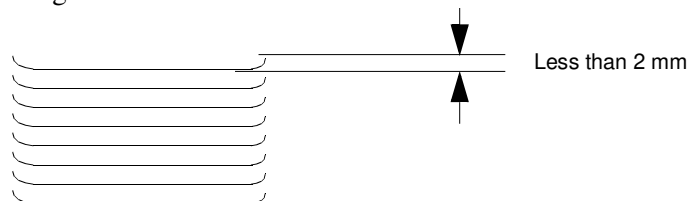


Figure B-3. Moisture (2)

Paper Curl

Paper curl is a very significant factor in printer performance. It can affect the printer in the following ways:

- Paper jam, paper skew and ability to be picked up
- Paper stacking uniformly in the output stacker
- Paper wrinkles through the heat roller (fuser).

Nearly all paper has curl or a tendency to curl. Curl can occur after the paper passes through the printer's fuser where it is exposed to high temperatures. In most paper, curl results from unusually large, sudden, or uneven changes in the moisture content.

How to Avoid Paper Curl

- Use high-quality xerographic paper.
- Store the paper in a moderate environment (40% to 60% relative humidity).
- Minimize humidity changes throughout the day in the printer room.
- Minimize the humidity difference between the paper storage area and the printer room. If the humidity difference is considerable, move the paper into the printer room a few days before to allow the paper to adjust to the printer room environment.
- Wrap the unused paper properly in moisture-resistant wrappers to protect the paper from moisture absorption or loss.

Recycled Paper

Recycled paper is made from used paper. The used paper is dissolved into fibers and then mixed with new paper fibers. However, various kinds of low-grade used paper (such as newspapers and magazines) are added to high-grade old paper. The paper manufacturer must have a high level of expertise and exercise strict controls regarding the use of used paper in recycled paper production. Therefore, it is recommended that paper sold as xerographic recycled paper also be sufficiently tested before using. The most important factor is the length of time the paper can keep its stabilized quality. It is recommended that a small sample (about 2,000 sheets) of recycled paper be tested in the printer and the reliability in paper feed and print quality is confirmed continuously over several months.

NOTE:

Check print quality after job by means of printing the Raster Pattern (refer to “[Test Print](#)” on page 2-15) about 10 sheet when using the Recycled Paper, because the Recycled Paper’s impurities on Fuser Roll and Photoconductor might occur some print defects.

Grain Direction

The direction of paper fibers greatly affects paper curl and deformation. High quality xerographic paper is manufactured with the fibers oriented evenly in the same direction (grain long). The direction of the grain can be determined by tearing the paper. A clean tear indicates the grain direction as shown below.

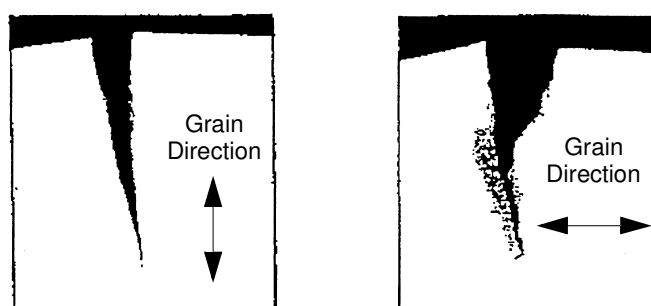


Figure B-4. Grain Direction

Paper Smoothness

Paper smoothness affects print quality and paper handling. Paper should not have a rough texture. A rough texture provides poor toner adhesion, particularly in “black fill” areas. Neither should the paper be too smooth, as this can also affect toner adhesion. Paper that is too smooth has inadequate friction and can cause paper handling difficulties. Do not use paper with embossed or raised surfaces. Spotty printing and misfeeding may occur.

Special Media

The printer can use special media that has been designed and treated for xerographic use.

- Preprinted paper
- Prepunched paper
- Index paper
- Adhesive labels
- Perforated paper

It is recommended that a small sample (500 to 1000 sheets) of the special paper be tested before production quantities are purchased. Testing small samples can give a fairly good indication of what to expect in terms of print quality and toner adhesion; however, only long term tests involving several thousand sheets can begin to provide reliable data about characteristics like environmental changes, paper path reliability, paper dust contamination, loose filler, etc. It is recommended that initial orders of special supplies be limited to a 30-60 day supply until it has have proven to perform well over a long period of time.

Preprinted Paper

It is very important to work closely with the paper supplier when designing and ordering preprinted paper. To avoid problems with preprinted forms, observe the following guidelines:

- Forms must be printed with heat-resistant ink that will not melt, vaporize, delaminate, or release hazardous emissions when subject to heat. [Refer to “Paper Fusing” on page B-4](#) for additional information.
- Minimize the amount of ink used in printing. Avoid print designs that use large quantities of ink. Perform screen printing if a large area needs to be printed.

Ink Recommendations

Ink used in preprinting should be non-volatile and oily. Ink suitable for pre-printing is cured by:

- Ultraviolet or heat (cured for 1 day)
- Oxidative polymerization (cured for 7 days)
- Ink cured by heat (Tinplate Ink)

Before using preprinted forms, make sure the ink is completely cured to prevent it from transferring to the printer's rollers and contaminating the internal printer mechanism.

The following inks are not suitable for preprinting:

- Quick set ink
- Ink dried by evaporation
- Cold set ink
- Ink dried by sedimentation or deposition
- Ink dried by penetration

NOTE:

Preprinted paper should still meet the paper specifications after the preprinting process is complete.

Paper Curl in Preprinted Paper

Preprinting can result in paper curl. Generally, the amount of paper curl depends on which side of the paper is printed first. [Refer to “Paper Curl” on page B-6](#) for more information.

Prepunched Paper

Prepunched paper should be flat and without deformation. Do not use paper with ragged or damaged hole edges. Any paper pieces resulting from the punching operation and paper dust should be removed before using.

Use prepunched paper with holes that conform to the following specifications:

- Maximum of four holes.
- Maximum hole diameter of 8.0 mm (0.315 in.).
- Holes must not be located in or protrude into the shaded area shown below.

(a) Face down stacking in simplex print and Face up stacking in duplex print

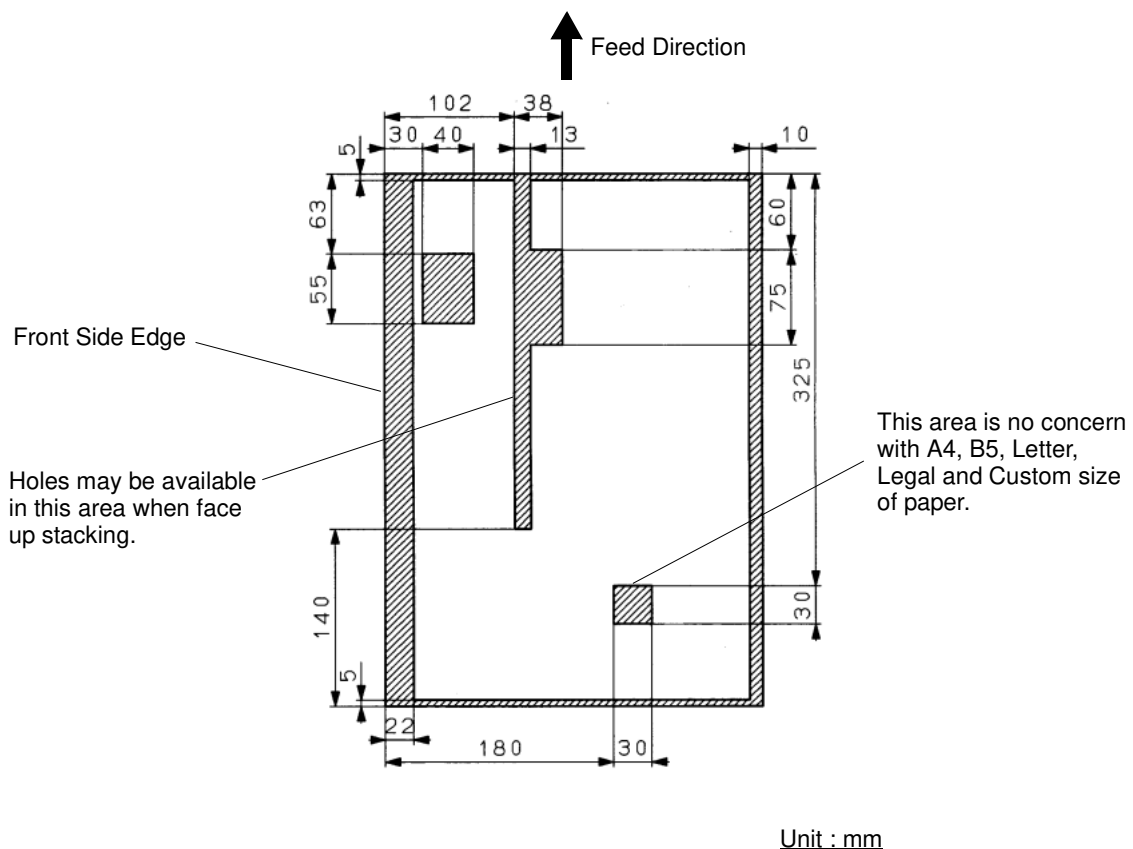


Figure B-5. Prepunched Paper (1)

Figure B-6. Prepunched Paper (2)

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Adhesive Labels

An adhesive label is paper with a pressure-sensitive adhesive backing. Label stock consists of three components: the top or face sheet, the adhesive, and the liner or carrier sheet, sometimes referred to as the backing. Note the following points about label stock:

- When exposed to the heat of the fuser, the label stock should not curl significantly, and the adhesive should remain stable so that it does not release any hazardous emissions. Refer to “Paper Fusing” on page B-4 for more information.
- No adhesive should be exposed between the labels or along the edge of the label backing.



CAUTION!

Adhesive that comes in contact with the printer may contaminate the photoconductor and the internal printer mechanism. To test label stock for adhesive exposure, press a sheet of plain paper against a sheet of label stock. The plain paper should not adhere to the label stock at all.

- Do not use labels with wrinkles, bubbles or any indication of delamination.
- Fan the label stock before loading it into the tray.
- Do not use label stock when printing in duplex mode.
- Do not use label stock that has some of the labels removed.
- Purchase minimum quantities of label stock to avoid the need to store it for longer than 6 months from the date of manufacture.
- Test any label stock you are considering to verify its performance in your printer.
- Check print quality every 500 pages and after job by means of printing the cleaning pattern (ex. 2 on 8 off raster) about 10 sheet by duplex when using the Adhesive Labels, because the paste stain on Fuser Roll and Photoconductor might occur some print defects.

Adhesive Label Configuration

The illustration on the left shows label stock with space between the individual labels. This can cause paper jams and/or labels to peel off during the printing process. The illustration on the center shows label stock without spaces, but each labels has rounded corner. This can also cause paper jams and /or labels to peel off.

The illustration on the right shows the recommended label stock without spaces between the individual labels, and each labels has no rounded corner. Refer to [“Adhesive Label Specifications” on page B-14](#) when purchasing label stock.

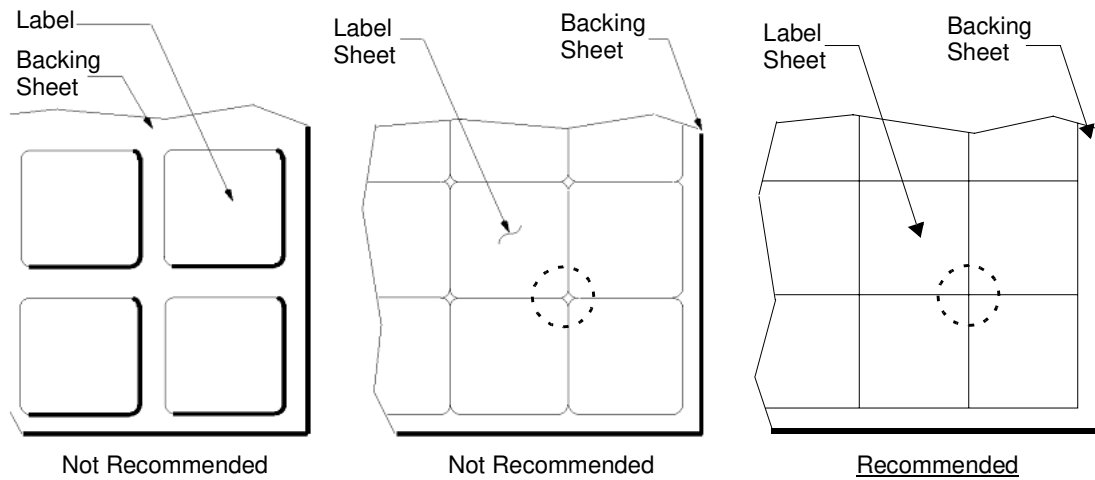


Figure B-7. Adhesive Label Configuration

Storing Labels

- Store the labels in a clean, dry location where the temperature can be maintained at 18° to 26°C (64° to 79°F) and the relative humidity does not exceed 55%.
- Allow the labels to adjust to the printer room environment before opening the label carton or package. Move the labels into the printer room at least 24 hours prior to opening the carton or package.
- Leave the labels in the original package until printing is ready to begin. Replace the unused labels in the original package and then reseal the package with tape or store the unused labels in a plastic bag.
- Do not leave labels in the hopper of an inactive printer overnight or for long periods of time.
- Use the labels on a first-in, first-out basis.

Adhesive Label Specifications

Use the following specifications when purchasing label stock.

Table B-3. Adhesive Label Specifications

Characteristics	Recommendation
Total Basis Weight Notes 2 and 4	42 lb (158 g/m ²) (includes face sheet, adhesive, and carrier)
Caliper Notes 1, 2, and 4	5.7 mils (145 µm) maximum (includes face sheet, adhesive, and carrier)
Face Stock Smoothness (Sheffield) Notes 1, 2, and 3	100-200 Sheffield units
Coefficient of Static Friction	0.35 to 0.62
Surface Sizing	Starch - Do not use synthetic surface sizing
Internal Sizing	Acid rosin or synthetic (alkylketene dimer or alky-succinic anhydride)

NOTE:

Testing method - Technical Association of the Pulp and Paper Industry (TAPPI).

Testing method - International Organization for Standardization (ISO).

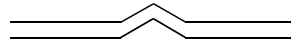
The test must be conducted on a large, unscored section of face stock to prevent interference by the score lines.

Refers to the adhesive label, including the face stock, adhesive, and the carrier sheet.

Perforated Paper

A perforation is a series of holes punched through the paper to aid in the separation of one piece from another. Perforated paper can cause jams, misfeeds, and even printer damage. The following guidelines should be used when ordering perforated paper:

- Perforations should be free from any burrs and paper dust to avoid multiple feed, contamination, or paper jam problems.
- Avoid use of perforations that are not flat.



Not Recommended

Figure B-8. Perforated Paper (1)

- The ratio of cut to uncut in a perforated line should be 1:1.

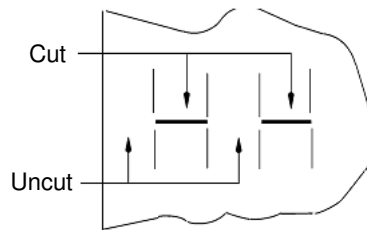


Figure B-9. Perforated Paper (2)

- Perforations must not extend to the edge of the page. The minimum distance from perforation to edge of the pages is 50 mm.
- The maximum number of perforated lines per page is 3 horizontal and 2 vertical.

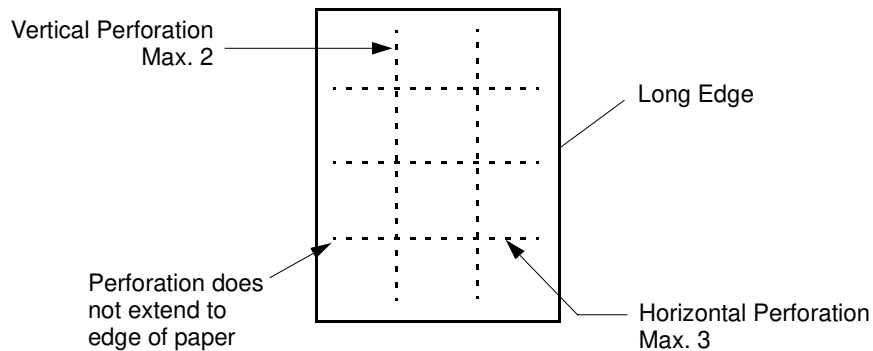


Figure B-10. Perforated Paper (3)

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- Do not print within a 4 mm area around the perforations.

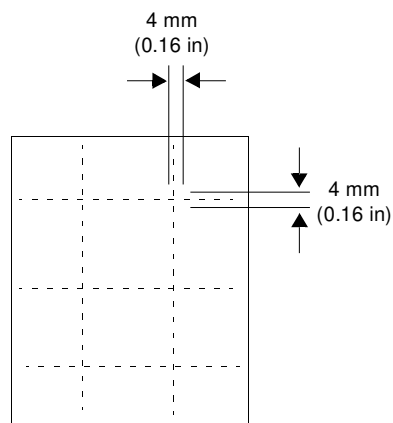


Figure B-11. Perforated Paper (4)

Printing Guidelines

Printable Area

Printable area means the area of the page on which you can print. Print quality can degrade when printing outside the following print area:

- The printable area is 5 mm (0.2 in) from the top, 8 mm (0.31 in) from the bottom, and 5 mm (0.2 in) from the left and right sides of the paper.
- The printable area is 3 mm (0.12 in) from the edge of any punched holes to minimize printer contamination.
- The printable area is marked with diagonal lines.

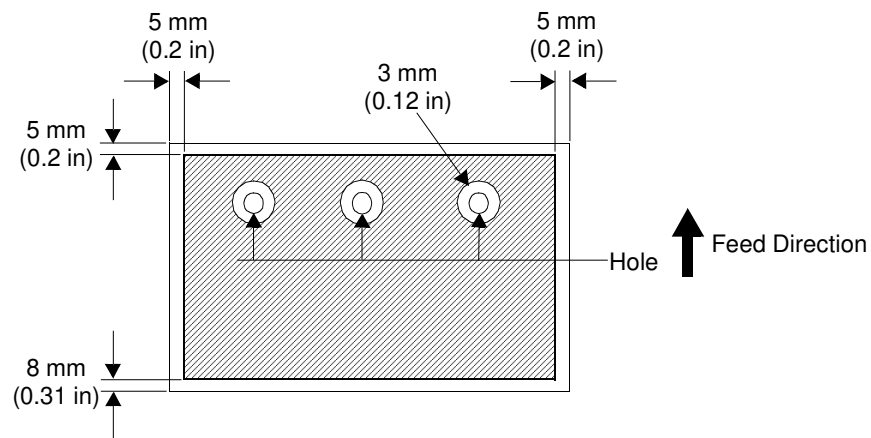


Figure B-12. Printable Area

Preprinted Lines

When using a form with preprinted lines the text must be placed a minimum of 2 mm (0.08 in) away from the lines.

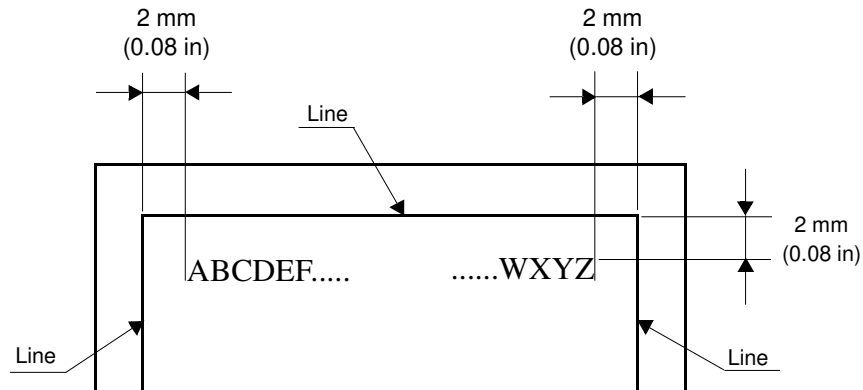


Figure B-13. Preprinted Lines

Preprint Inhibited Area

Dark colored preprint that fills over an area marked with diagonal lines should be avoided.

Unless, the sensor may be misdetect.

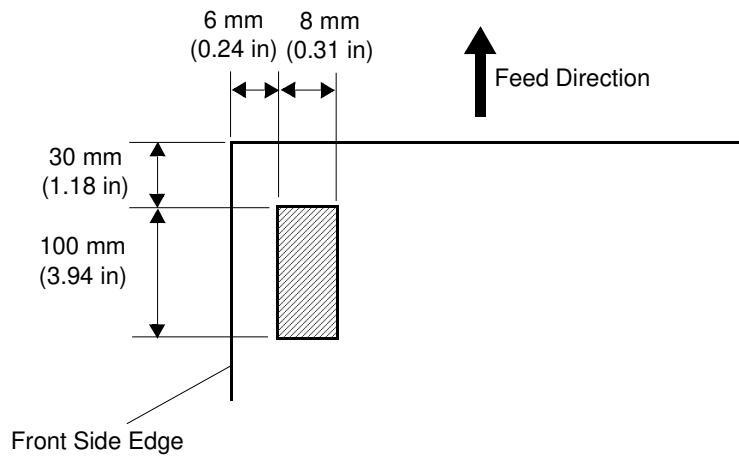


Figure B-14. Preprint Inhibited Area

Appendix C

Code Page for IPDS emulation

The following code pages can be selected as the Default Code Page:

037 US, Canada, Netherlands, Portugal
038 US English ASCII
260 Canadian French
273 Austrian/German
274 Belgium
276 Canadian French
277 Danish/Norwegian
278 Finnish/Swedish
280 Italian
281 Japanese
284 Spanish
285 UK English
286 Austrian/German (alternate)
287 Danish/Norwegian (alternate)
288 Finnish/Swedish (alternate)
290 Japanese/Katakana
297 French
420 Arabic
423 Greek
424 Hebrew
500 Belgium, Switzerland/International
870 Latin 2 Multilingual
871 Icelandic
875 Greek
880 Cyrillic
892 OCR-A
893 OCR-B
905 Turkish
1025 Cyrillic
1026 Turkish

The following code pages include the Euro character:

1140 US, Canada, Netherlands, Brazil, Portugal
1141 Austrian/German
1142 Danish/Norwegian
1143 Finnish/Swedish
1144 Italian
1145 Spanish
1146 UK English
1147 French
1148 Belgium, Switzerland/International
1149 Icelandic.

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Appendix D

FGID for IPDS emulation

The following FGID can be selected as the Default FGID:

3 OCR-B
11 Courier 10
12 Prestige Pica
18 Courier Italic 10
19 OCR-A
46 Courier Bold 10
60 Prestige Pica Bold
76 APL
85 Courier 12
86 Prestige Elite
92 Courier Italic 12
108 Courier Bold 12
111 Prestige Elite Bold
112 Prestige Elite Italic
159 Boldface
164 Prestige PSM Roman Medium
203 Gothic Text
221 Prestige 15
223 Courier 15
244 Courier Ultra Expanded
252 Courier. 17
254 Courier. 17 ss
256 Prestige 17
281 Letter Gothic
283 Gothic Text
290 Gothic Text
304 Katakana Gothic
307 APL2
322 APL2 Bold
416 Courier Roman Medium 10
420 Courier Roman Bold
424 Courier Italic Medium
428 Courier Italic Bold
701 Prestige PSM Roman Bold
2304 Helvetica Roman Medium
2305 Helvetica Roman Bold
2306 Helvetica Italic Medium
2307 Helvetica Italic Bold
2308 Times New Roman Medium
2309 Times New Roman Bold
2310 Times New Roman Italic Medium
2311 Times New Roman Italic Bold
5687 Times Roman

5707 Times Roman Bold
5815 Times Roman Italic
5835 Times Roman Bold Italic

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Glossary

Numbers

10/100 Base-T. IEEE 802.3 specification, using unshielded twisted pair wiring and running at 10/100 Mbps.

10/100/1000 Base-T. IEEE 802.3 specification, using unshielded twisted pair wiring and running at 10/100/1000 Mbps.

B

Bit. A binary digit (0 or 1), which is the smallest unit of information used by a printer or computer.

Bps. *Bits per second.*

Byte. A unit of information consisting of 8 bits.

C

Cancel. A button on which the user clicks to end a specific process or action.

Consumables. Items such as toner and/or developer (EP Cartridge) that the printer *consumes*.

Controller. The board that controls the engine. Contains firmware, I/O connectors, RAM, and the main CPU.

CPU. *Central Processing Unit.*

D

Data. Factual information, commonly organized for analysis.

Density. The degree of darkness of a printed image.

DOT. Use *dot*, not *bit* to describe an individual screen pixel.

Dots per inch (dpi). A measure of the resolution of a printed page.

Download. The process of transferring data from a host to a printer's or print server's internal memory or hard drive.

DRAM. *Dynamic Random Access Memory.*

E

EMI. *Electro-Magnetic Interface.*

Emulations. Printer's ability to imitate another printer by accepting and acting on the same commands as the emulated printer (e.g., LJ III emulation).

ESD. *Electro-static Discharge.*

Ethernet. A baseband LAN specification invented by Xerox Corporation and developed jointly by Xerox, Intel, and Digital Equipment Corporation. Ethernet networks operate at 10 Mbps using CSMA/CD to run over coaxial cable.

EtherTalk. AppleTalk protocols running on Ethernet.

Exit. To leave or quit a program.

F

Face down. Printed pages that exit the printer printed side down.

Face up. Printed pages that exit the printer printed side up.

Factory Defaults. Printer settings applied when the printer is manufactured.

H

HCF. *High Capacity Feeder.*

HDD. *Hard Disk Drive.*

I

IEEE. *Institute of Electrical and Electronic Engineers.*

Image Area. Refers to the printable area of a page.

Initialize. To establish the initial default status of the printer by turning on the printer.

I/O Connector. Input/output connector that attaches the computer to the printer is connected here (e.g., parallel, serial, LocalTalk, Ethernet).

IP. Internet Protocol. This is layer 3 (network layer) protocol that contains addressing information and some control information that allows packets to be routed.

IPDS. A registered trademark of Ricoh Company, Ltd.

L

LAN. *Local Area Network.*

LCD. *Liquid Crystal Display.*

N

NIC. Network Interface Card.

O

OCP. Operator Control Panel.

Orientation. Position of the print on the page. In Portrait orientation, the print runs from the top to bottom margins across the narrow width of a sheet of paper. In Landscape orientation, the print runs from the left to right margins along the length of a sheet of paper.

P

Paper Size. Physical dimensions of the paper.

PCL. Hewlett-Packard *Printer Control Language*.

PDF. *Portable Document Format*.

PDL. *Page Description Language*.

Pixel. In electronic publishing, a basic unit of digital imaging.

Porosity. The ratio of the volume of pores in a material to the volume of the whole, as in a percentage of the volume of pores through which light may pass through paper.

Port. Designates a pathway for the flow of data in or out of a device.

PostScript. A registered trademark of Adobe Systems, Inc.

Printable area. Area of the physical page in which the printer is able to place a dot.

Q

Queue. A destination for a sequence of stored data or programs awaiting processing, as in files waiting in line to be sent to the printer.

R

RAM. *Random Access Memory*. A type of internal memory that stores data temporarily.

S

Serial interface. An interface that sends data one bit at a time over a single line.

Startup. The act or process of setting into operation or motion, as in starting up your system with a *startup* disk.

System. A broad term to include a computer and any peripheral devices, accessories, and software.

T

TCP/IP. *Transmission Control Protocol/Internet Protocol.* The two best known protocols often thought of as one protocol. TCP corresponds to layer 4 (transport layer) of the OSI reference model, and provides reliable data transmission. IP corresponds to layer 3 (network layer) and provides connectionless datagram service. U.S. Department of Defense developed TCP/IP in the 1970s to support the construction of worldwide internetworks.

Toner. Imaging material used in electrophotography and some off-press proofing systems. The material that is used to create the physical image on the page.

V

Virtual printer. A logical printer definition within the physical printer. To the network server and workstations, each *virtual printer* appears as a single physical printer.

VPT. Virtual Printer Technology. The virtual printer feature of a printer that allows it to appear as multiple printers to other network workstations.