



LP 100R Laser Printer Installation Guide



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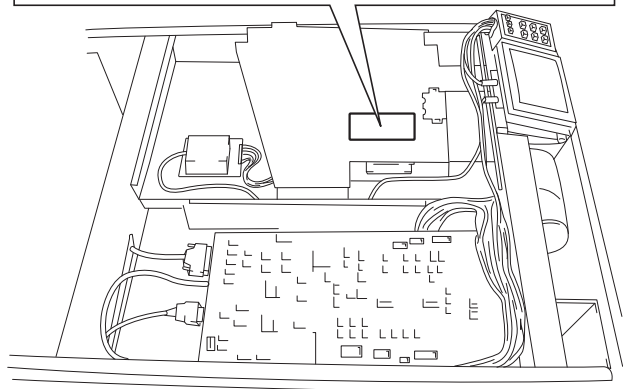
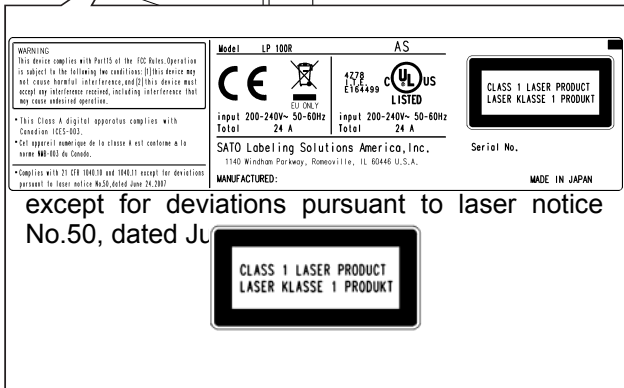
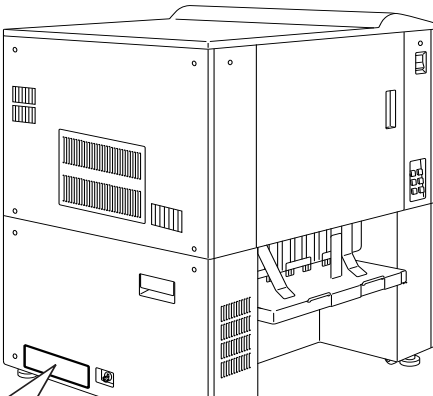
Regulatory Notices

Laser Safety

This product employs a Class 3B laser diode having maximum power of 35 mW and wavelength of 770-800 nm. This product is certified as a Class 1 laser product. Since the laser beam is concealed by protective housings, the product does not emit hazardous laser radiation as long as the product is operated according to the instructions in this manual.

Internal Laser Radiation

Maximum average radiation power: 22 μ W at the PC Drum
Wavelength: 770-800 nm



! DANGER

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

FCC Regulations

This equipment generates and uses radio frequency and, if not installed in accordance with the instruction manual, may cause interference to radio and television reception. The equipment has been tested and found to comply within the limits for a Class A computing device in accordance with specifications in subpart J of Part 15 of the Federal Communication Commission (FCC) Rules, which are designed to provide reasonable protection against such interference in a commercial installation.

Note: Use a shielded and properly grounded I/O cable to ensure that this unit complies to the limits specified in the FCC Rules.

There is no guarantee, however, that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user, at his or her own expense, will be required to take whatever measures may be necessary to correct the interference.

For more information on preventing radio frequency interference, see the [Manufacturer's Instructions](#) and [User's Responsibility](#) sections that follow.

Manufacturer's Instructions

The user must observe the following precautions in installing and operating this device:

1. Operate the equipment in strict accordance with the manufacturer's instructions for the model.
2. Plug the printer into a properly grounded wall outlet and use, unmodified, the power cord supplied with the unit.
3. Always operate the printer with all factory-installed covers on the unit.
4. Make no modification to the equipment that would affect its meeting the specified limits of the FCC Rules.
5. Maintain the equipment in a satisfactory state of repair.
6. Use a shielded and properly grounded I/O cable to ensure compliance of this unit to the specified limits of the FCC Rules.

User's Responsibility

The user is ultimately responsible for correcting problems arising from harmful radio frequency emissions from equipment under his or her control. If this equipment does cause interference to radio or television reception (which as specified can be determined by turning the printer off and on), SATO encourages the user to try to correct the interference by changing one of the following:

- Equipment orientation
- Equipment location
- Power source

All of these responsibilities and any others not mentioned are exclusively at the user's expense. If necessary, the user should consult SATO for additional suggestions.

Note: If it is determined that equipment operation is causing harmful interference, the equipment operator may be required to stop operating the equipment until the interference problem is corrected.

DHHS

This printer is certified as a Class 1 Laser Product under the United States Department of Health and Human Services (DHHS) Radiation Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation.

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

CDRH Regulations

The Center of Devices and Radiological Health (CDRH) of the United States Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured from August 1, 1976. Compliance is mandatory for laser products marketed in the United States.

The following statement, which indicates compliance with the CDRH regulations, must be affixed to the laser products marketed in the United States:

**THIS PRODUCT CONFORMS WITH CDRH
RADIATION PERFORMANCE STANDARD
TITLE 21 CFR CHAPTER 1, SUBCHAPTER J**

General Notes, Warnings, and Cautions

Note: The LP 100R printer uses an electrophotographic printing system, which requires more precautions in observing paper specifications than those required for conventional impact line printers. In an electrophotographic printing system, improper toner transfer and missing characters are evident if the paper absorbs moisture and ripples in the vicinity of the perforation.

Note: When paper is stored in unfavorable conditions or does not meet the specifications cited in the LP 100R Operator's Guide, print quality, as well as feeding and fusing functions, will suffer.

WARNING

Paper not within specifications may cause physical damage to the LP 100R printer and jeopardize printer performance (leading to the creation of waste and a consequent loss of production).

SATO advises that the printer be connected to a power source that has an isolated, dedicated ground to prevent interference from other equipment (which may cause printer memory loss during operation).

CAUTION

Before gaining access to any internal parts of the printer, always remove power from the unit by unplugging the AC power cord.

This manual must be reviewed and understood before performing any service on the LP 100R printer.

Preface

Purpose of This Guide

To present installation instructions for the LP 100R printer. This guide provides all installation instructions, from initial unpacking through electromechanical setup, that are required to prepare the printer for paper loading and operation using the instructions provided in the LP 100R Operator's Guide (Document Number 9855063).

How to Use This Guide

Start with paragraph 1.1 and follow the instructions provided. Note that the order in which groups of instructions are performed can change due to such variables as the printer location when unboxed and the width of the door openings through which it must be moved.

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CHAPTER 1. Preliminary Instructions

1.1 Operating Location Requirements

1. Refer to Appendix A, "LP 100R Printer Operation Location Requirements" and perform the steps provided to determine if all requirements have been met.
2. If the operating location requirements have been met, proceed to paragraph 2.1.

1.2 Unboxing and Unpacking Instructions

1. If the printer has not been unboxed, refer to paragraph 2.2, "Removal of Packing Material and Accessories Boxes" and perform the provided steps.
2. If the printer controller has already been unboxed, proceed to paragraph 5.3, "Controller Installation, Meto-Logic."

In the event that the printer was already located in its operating location when unboxed, SKIP paragraph 2.2 "Removal of Packing Material and Accessories Boxes" and proceed as instructed.

1.3 Before Moving the Printer to the Operating Location

1. Before moving the printer to its operating location, measure the width of the door opening. Proceed to paragraph 3.1.

1.4 Door Opening Minimum Width Requirements

When moving an "out of box" LP 100R printer through a door opening, ensure that door openings are no smaller than the required minimum width of 35" (889 mm).

1. Measure all door openings through which the printer must pass to reach its operating location.
2. To move a printer that has been existing in an operating location, remove the Suction Brake Unit from the printer. Refer to paragraph 4.5, "Installation of the Suction Brake Unit."

CHAPTER 2. Unpacking Instructions

2.1 Removing the Carton

1. Remove the straps from the carton as shown in Figure 2-1.
2. Remove the nails from the carton.

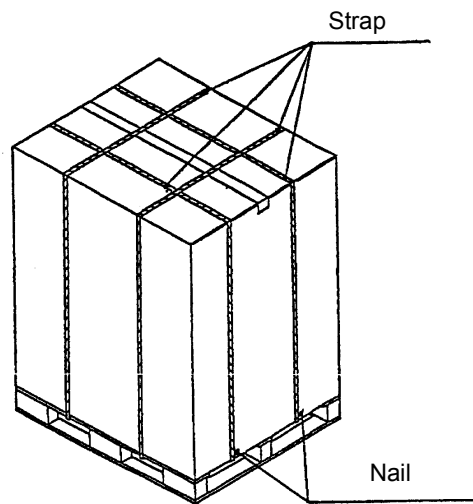


Figure 2-1

After unpacking, keep all packing materials out of reach of children.

3. Lift the outer carton as shown in Figure 2-2 until the carton is clear of the printer.
4. Remove the ramp on the side of the printer.
5. Remove the four cushions under the printer and remove the plastic bag surrounding the printer.

Use caution when handling the ramp.

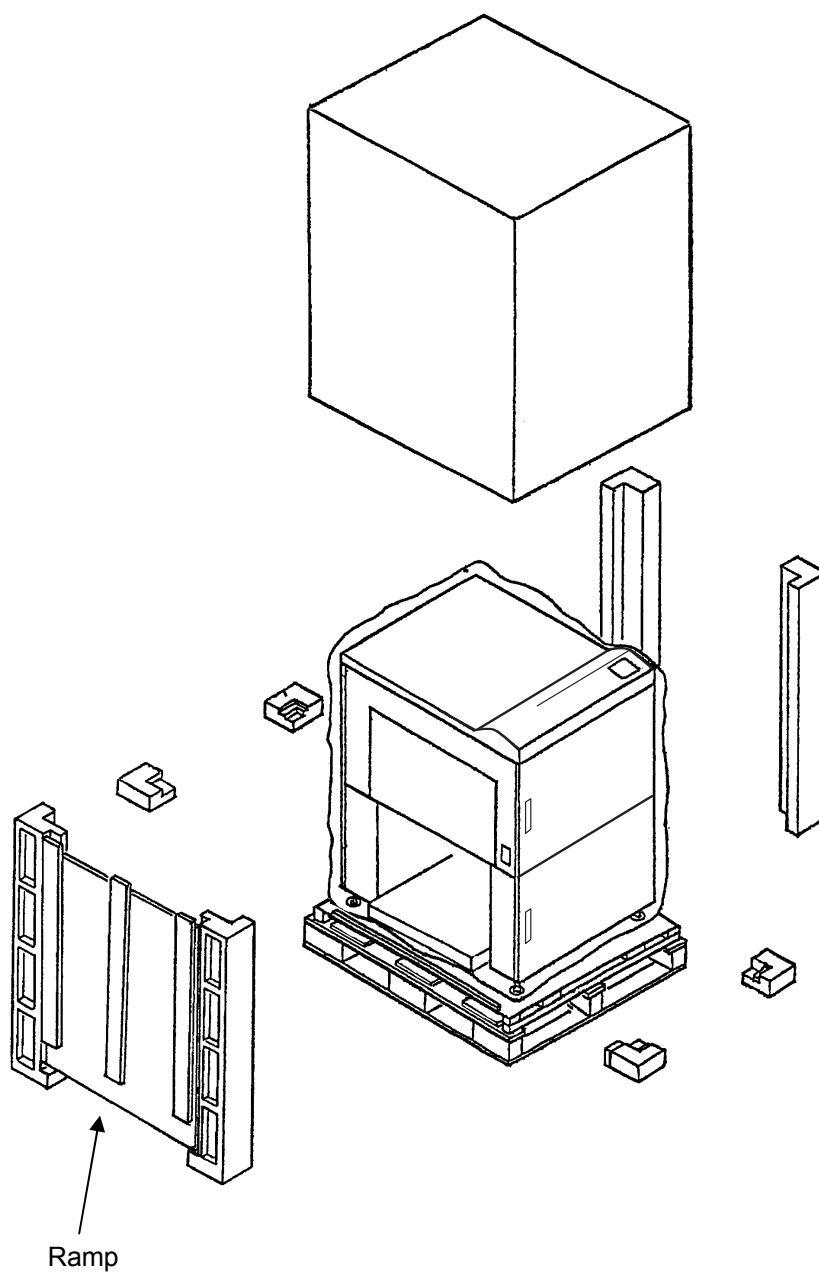


Figure 2-2

2.2 Removal of Packing Material and Accessories Boxes

1. Remove the two accessories boxes from the stacker tray.
2. Raise the stacker table upward.
3. Insert the ramp into the pallet on the front of the printer as shown in Figure 2-3.

Make sure that the ramp cannot separate from the pallet.

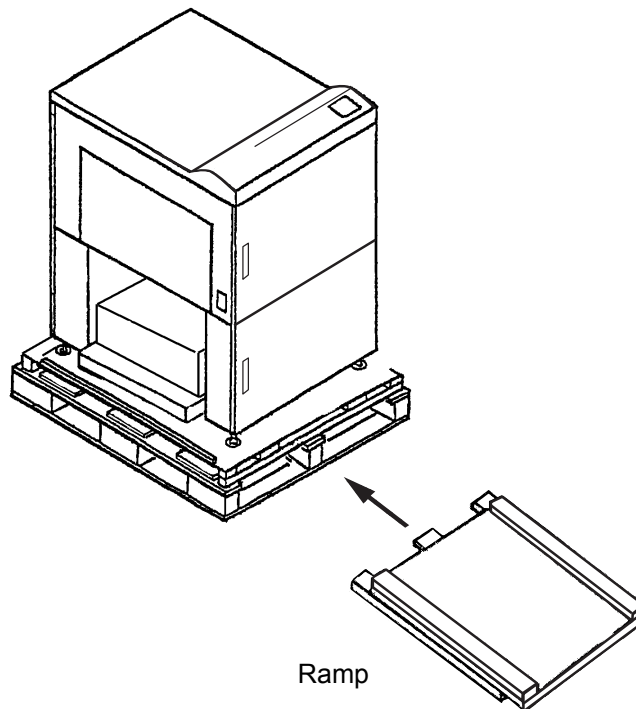


Figure 2-3

4. Adjust the printers leveling feet (4) upward from the base plate. Allow a minimum of 20mm of clearance for the printer to move unobstructed down the ramp. (See Figure 2-4)

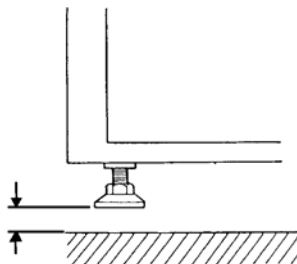


Figure 2-4

5. Utilizing four or more people, carefully move the printer down the ramp to the floor as shown in Figure 2-5.

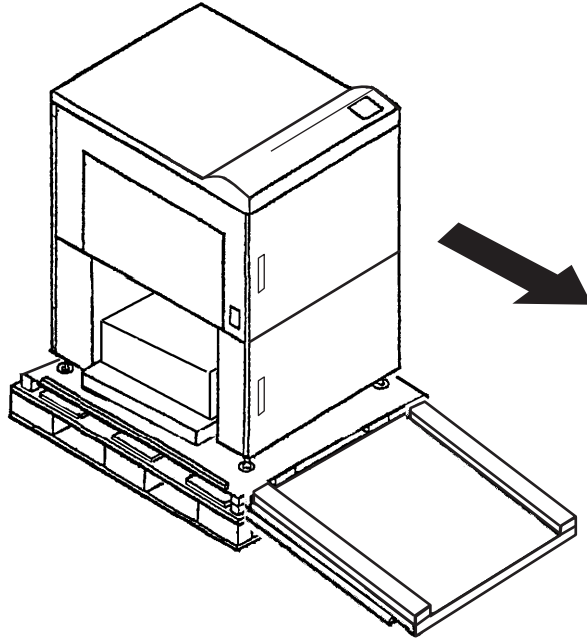


Figure 2-5

6. Remove the tape holding the right side of the printer.
7. Remove the packing material from underneath the tractor assembly as shown in Figure 2-6.

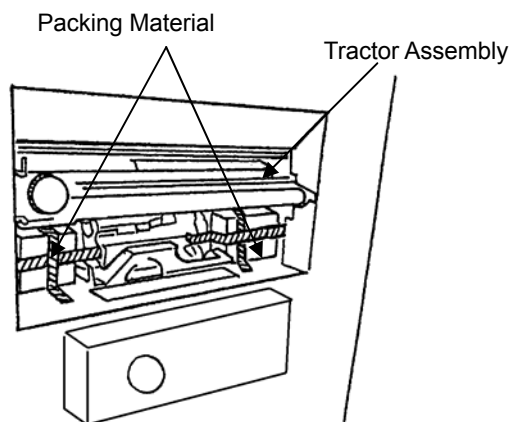


Figure 2-6

8. Open the left door as shown in Figure 2-7.

9. Open the fuser lamp assembly (2) screws.
10. Remove the shipping cushion on the fuser glass as shown in Figure 2-7.
11. Remove the tape holding the Fuser Toner Filter and Exit Rollers (Figure 2-7).
12. Remove any remaining tape and packing material from the outside of the printer.

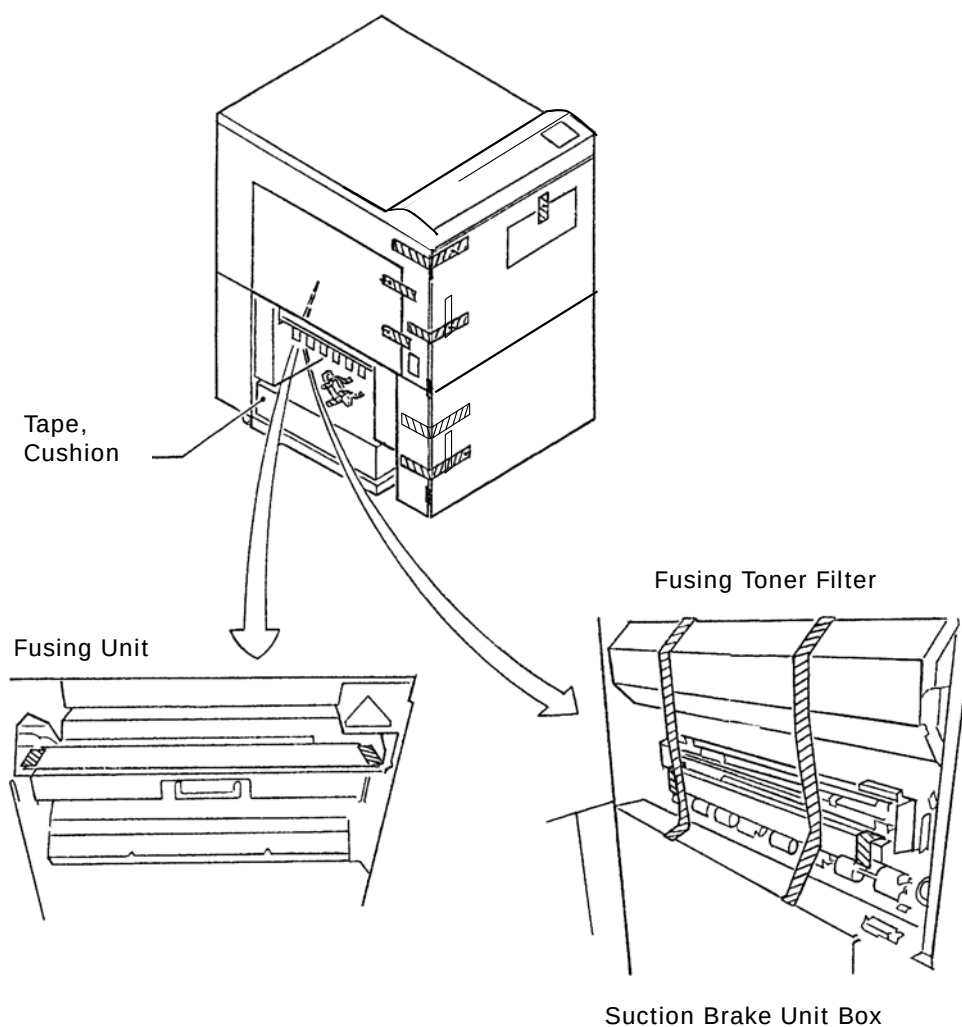


Figure 2-7

13. Open the front door.
14. Remove all visible tape as shown in Figure 2-8 below.
15. Remove the Toner Collecting Bottle and then remove the tape from the lower charger unit.
16. Re-install the Toner Collecting Bottle.

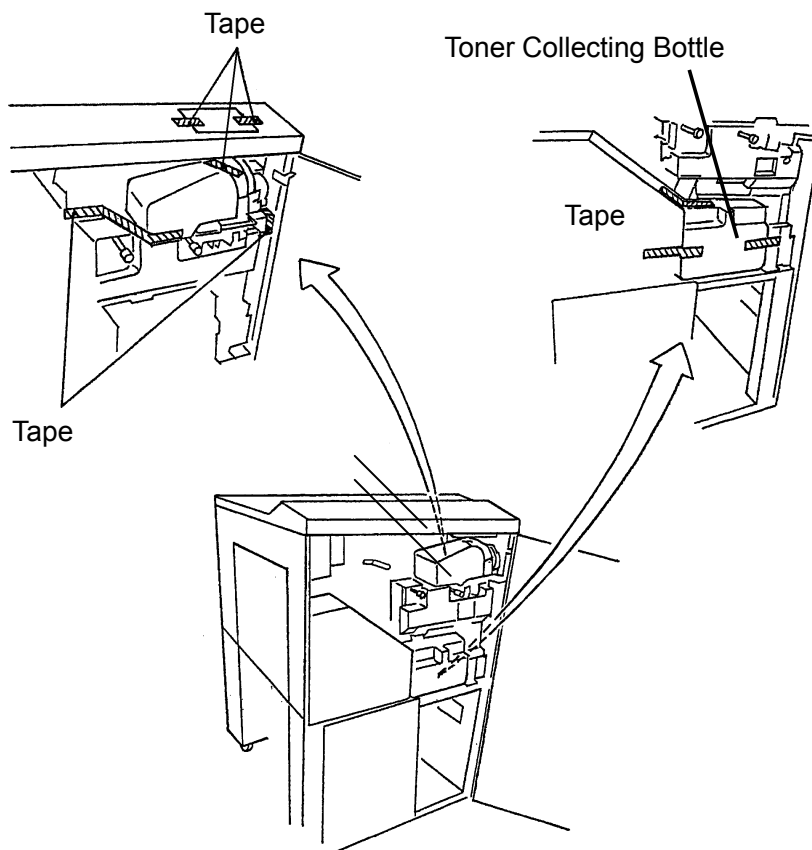


Figure 2-8

17. Remove the Lower Right Side Cover.
18. Remove the Controller and remove packing material around the controller.
19. Remove the Controller cover and confirm that all boards are securely seated.
20. Replace the Cover.
21. Unwrap the Printer Power Cord, Controller Power Cord, and the AC adapter, all located in the lower printer compartment.

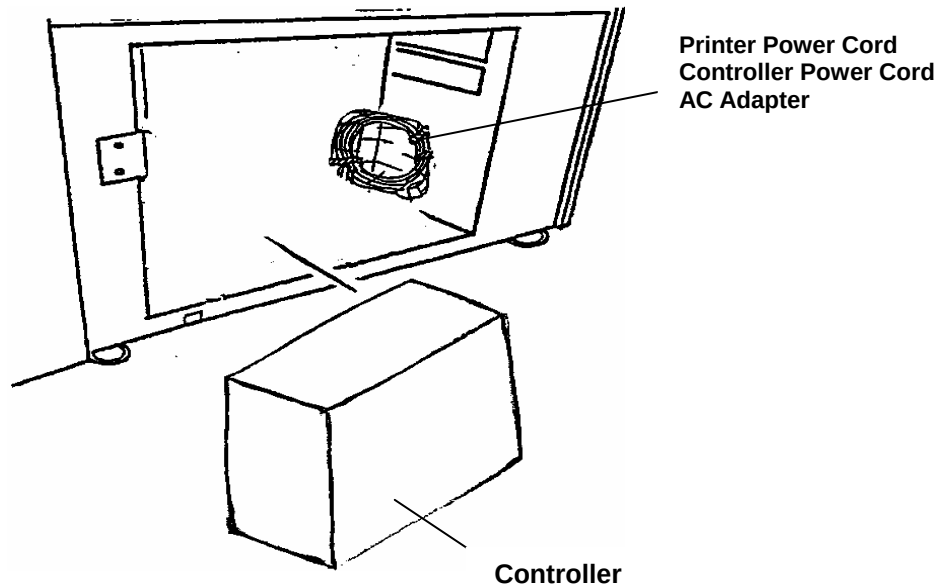


Figure 2-9

⚠ WARNING ⚠

Before installation, the Controller power supply voltage selector switch must be set to the 230V position.

22. Refer to paragraph 5.3 for complete Controller Installation.

CHAPTER 3. Moving the Printer to the Operating Location

3.1 General Cautions

1. Use care not to damage the finish of the printer covers, especially while moving the printer through door openings.
2. Do not tilt the printer more than 0.5 degree.
3. Do not drop the printer from a height exceeding 3 cm.
4. If the printer is moved on a “dolly,” make certain that it is entirely stable before moving.
5. If the printer is to be moved with a “fork lift,” use only the fork insertion position shown in Figure 3-1.

FORK INSERTION POSITION

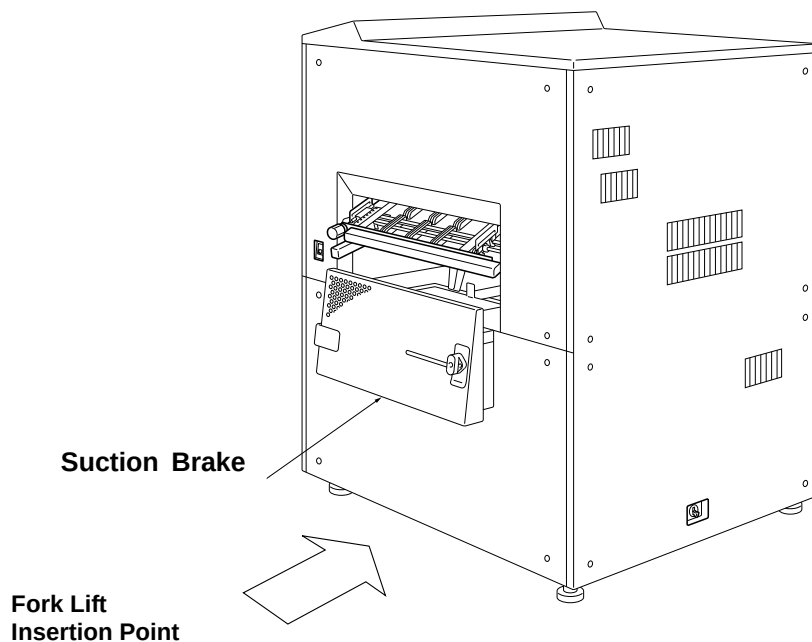


Figure 3-1

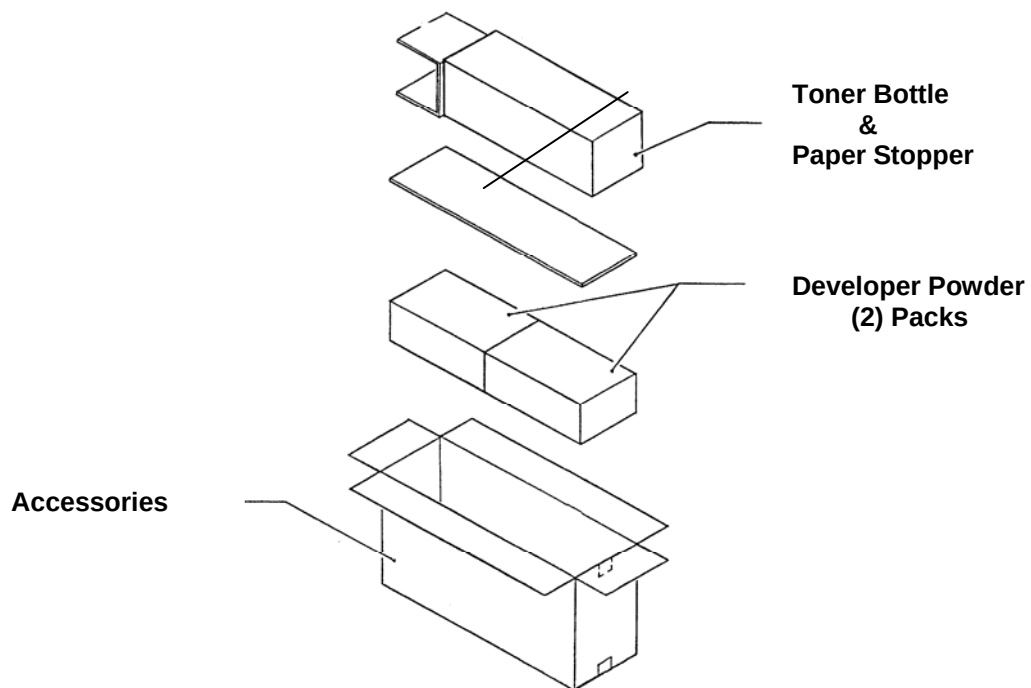
3.2 After Moving

1. If no parts were removed for moving, proceed to paragraph 4.1, step 1.
2. If printer parts were removed for moving, replace all of the parts at this time.

CHAPTER 4. Unpacking and Inventory of Accessories Boxes

4.1 Accessories Box No. 1

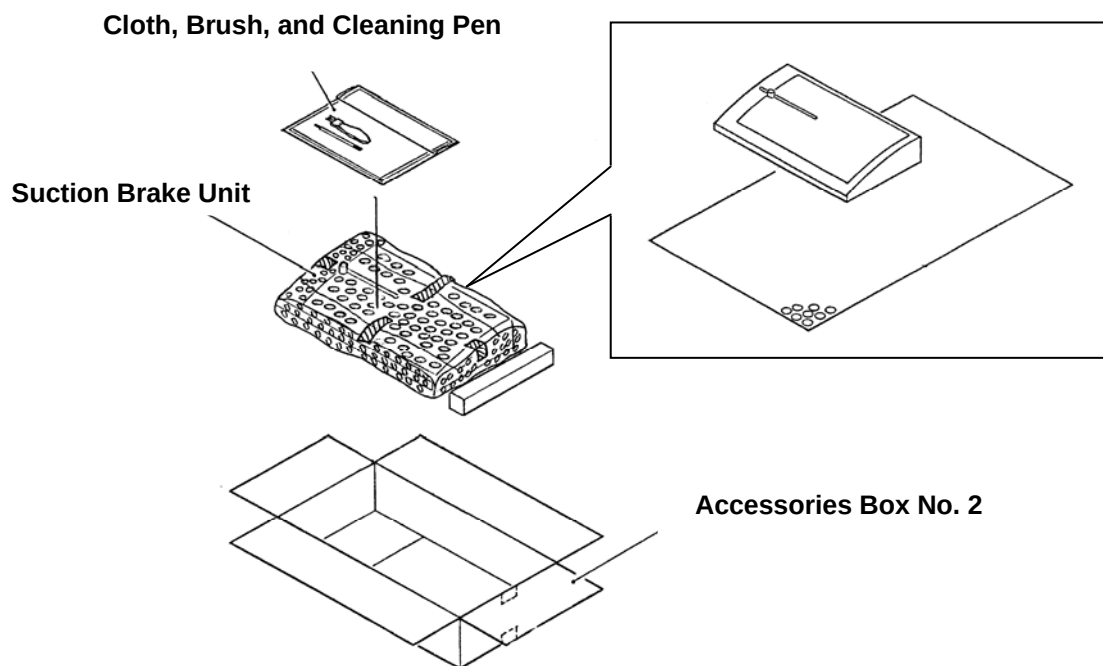
1. Unpack and inventory the contents of accessory Box 1.



Note: Developer pack contains two (2) packages of developer powder each. Two packages of developer powder are used during initial printer prep.

4.2 Accessories Box No. 2

1. Unpack and inventory the contents of accessories Box 2.



4.3 Accessories Box No. 3

1. Unpack and inventory the contents of Box No. 3
 - Universal Web Guide, Qty 1
 - Conveyor Roller, 1-3/8" x 22" Long, Qty 1
 - Installation Procedure

4.4 Missing or Damaged Accessories

1. Record missing or damaged accessories in the appropriate space on the "Equipment Installation Checklist," which is in Appendix H.
2. Proceed to paragraph 5.1 for printer electromechanical setup procedures.

4.5 Installation of the Suction Brake Unit

1. Remove the Suction Brake, three mounting screws and two connector cover mounting screws from accessories Box 2.
2. Mount the Suction Brake Unit onto the four mounting holes as shown in Figure 4-1.

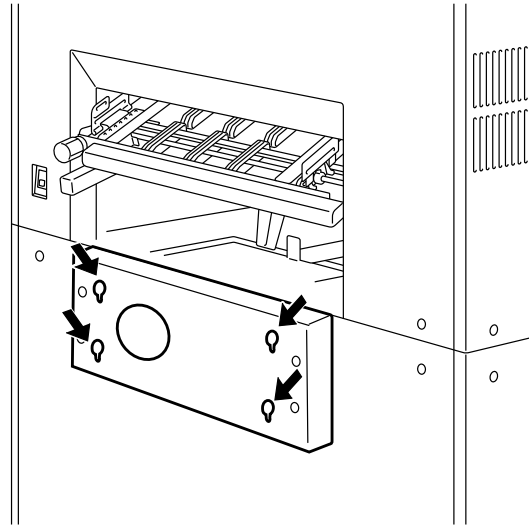


Figure 4-1

3. Fasten the Suction Brake (Figure 4-2) using the three mounting screws supplied.
4. Connect the 3P connector of the Form End Sensor to the Suction Brake Unit.
5. Mount the 3P connector cover with the two remaining screws supplied.

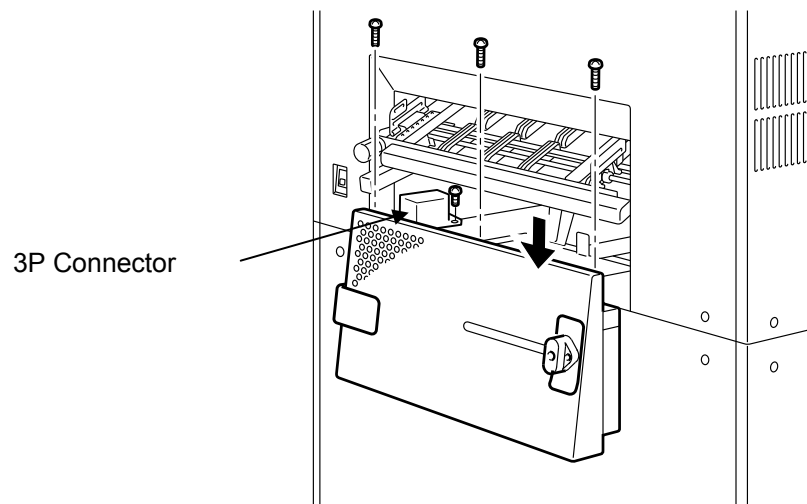


Figure 4-2

4.6 Installation of Web Guide/Connector Panel

1. Remove the filler plate (2 screws) from lower side cover beneath the suction brake. See figure below.
2. Remove the lower right side cover from the printer.



3. Remove the four mounting screws securing the connector panel to the mounting bracket.
4. Feed the connector panel through the hole of the lower sides cover.
5. Mount the lower side cover.
6. Remove the contents of accessory Box 3 containing the Web Guide assembly.

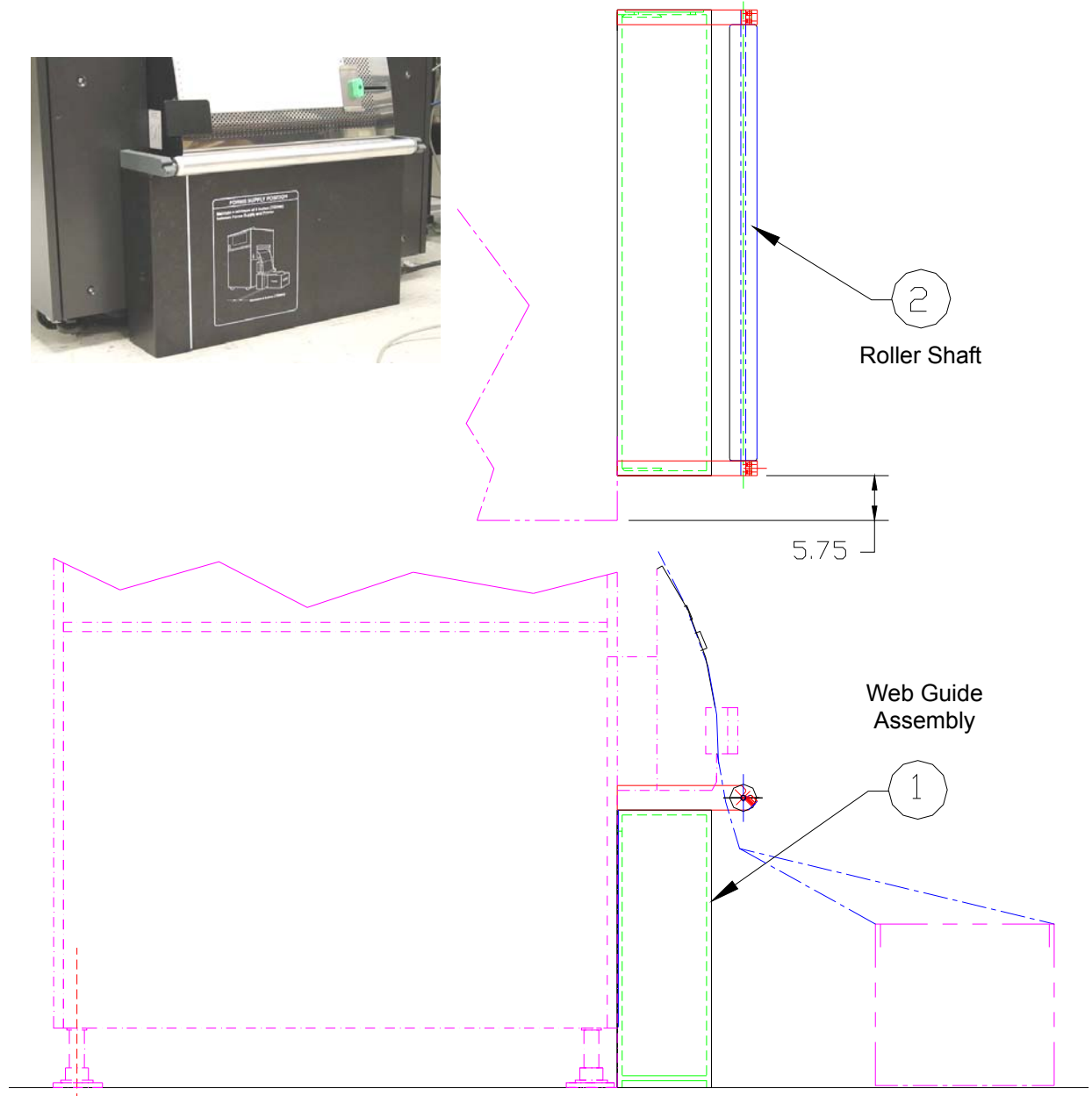
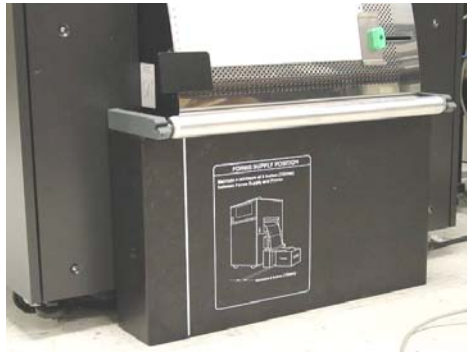


7. Remove the filler plate from the Web Guide Box and discard, retain (4) 6mm screws.
8. Feed the Connector Panel Assembly through the Web Guide Box as shown in the figure above.
9. Attach the Connector Panel Assembly through the Web Guide Box and attach with the (4) M4 x 6mm long screws provided.



Installation of Web Guide/Connector Panel, continued

10. Position the Box Assembly under the suction brake of the printer locating the edge 5 ¾" from the edge of the front printer cover. See Figure below.
11. Place the roller shaft (Item 2) in the grooves of the Web Guide Assembly (Item 1) and adjust the spring plungers so that the roller shaft does not pull out of the grooves during printer operation.



CHAPTER 5. Electromechanical Setup Procedure

Note: Parts of this chapter may have already been completed during printer prep.

5.1 Mounting the Paper Stopper (Stacker)

1. Remove the front of the Paper Stopper Guide Rail Screw shown in Figure 5-1.

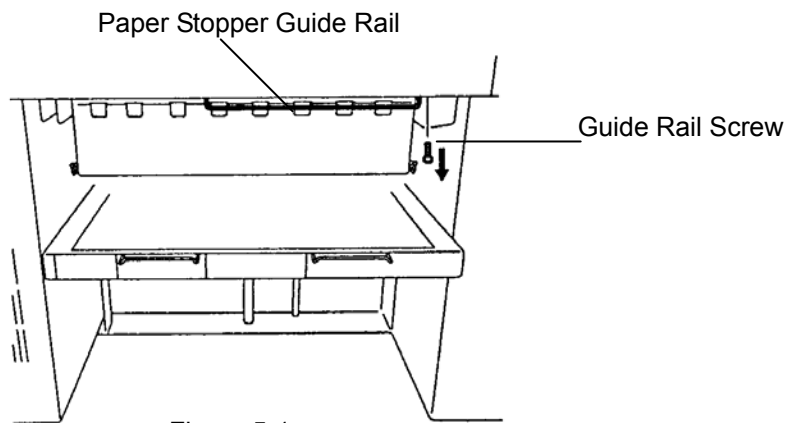


Figure 5-1

2. Install the Paper Stopper in the Paper Stopper Guide Rail as shown in Figure 5-2 and re-install the screw.

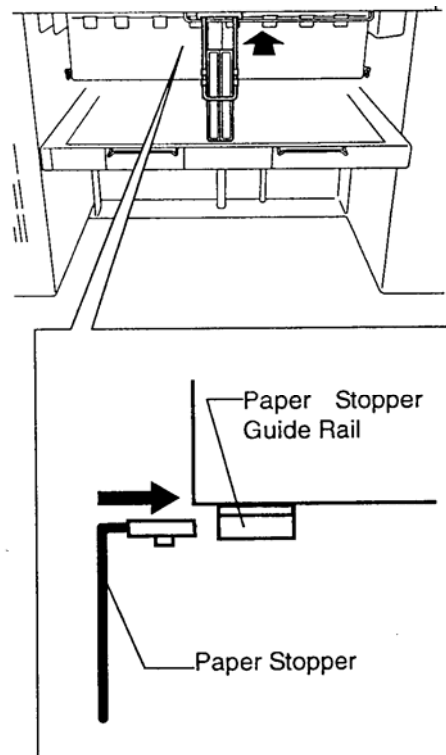


Figure 5-2

5.2 Preparation of the Developer Unit

1. Open the front door and slide open the EP Drawer (Figure 5-3.)

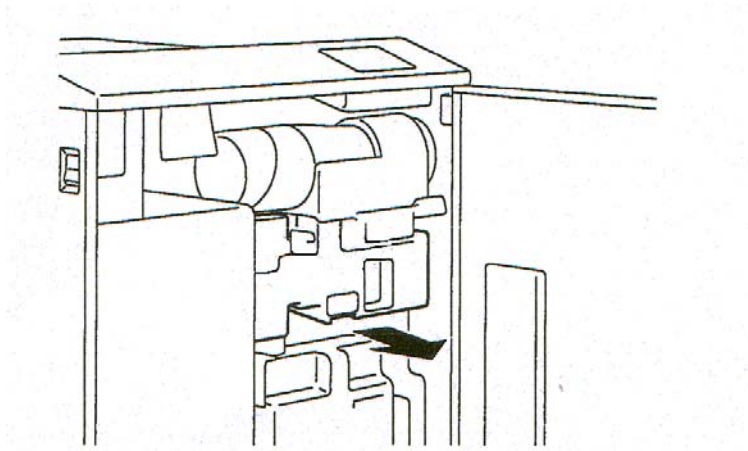


Figure 5-3

2. Remove any pieces of tape and packing material from the EP Drawer (Figure 5-4).

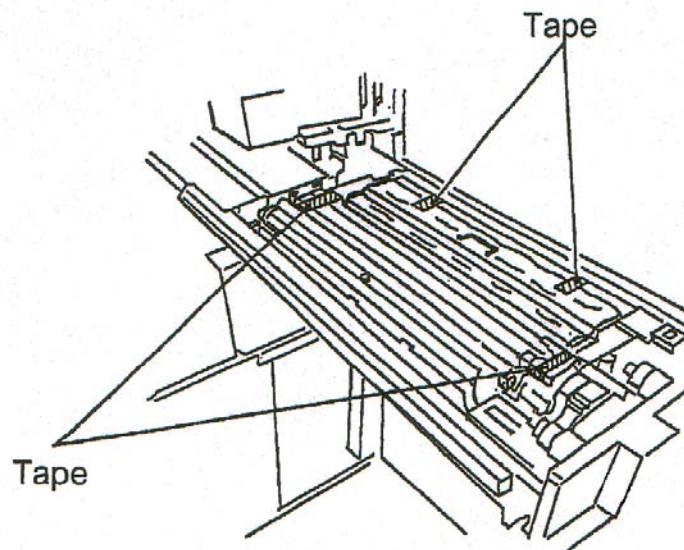


Figure 5-4

5.2 Preparation of the Developer Unit, continued

3. Remove the Main Charge Unit as shown in Figure 5-5.

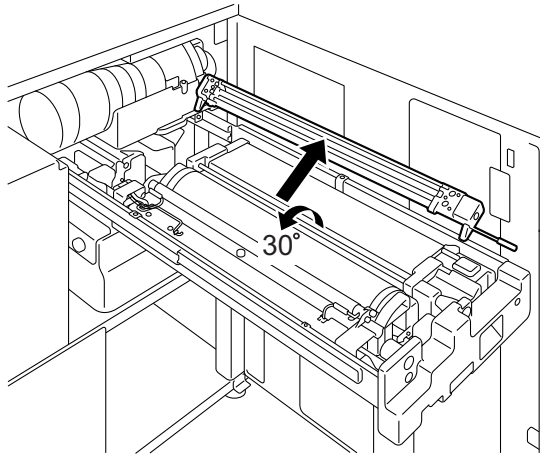


Figure 5-5

4. Remove the OPC Cartridge from the EP Drawer as shown in Figure 5-6

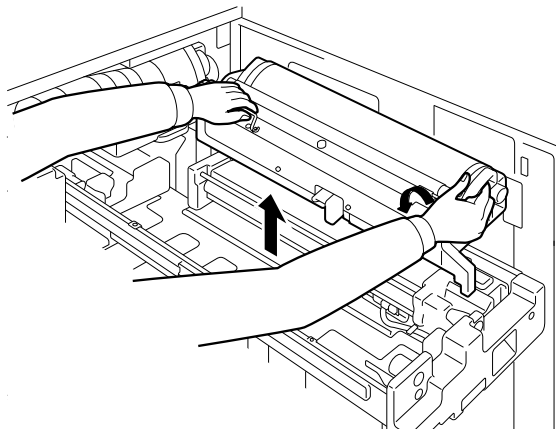


Figure 5-6

⚠ WARNING ⚠

Do not touch the organic photoconductor (OPC) drum. If the OPC Drum is exposed as-is, and the cartridge is kept in a bright light, it will not function properly. Limit indoor exposure to less than 10 minutes.

5.2 Preparation of the Developer Unit, continued

5. Remove the Developer Unit from the EP Drawer as shown in Figure 5-7.

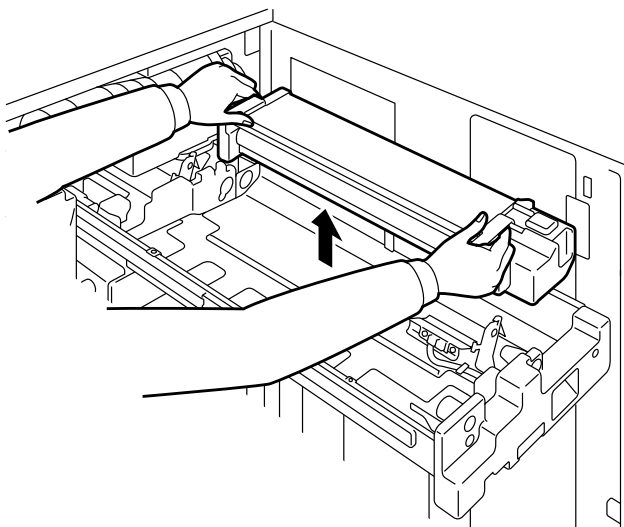


Figure 5-7

6. Remove the two screws securing the lid of the Developer Unit and remove the lid as shown in Figure 5-8.

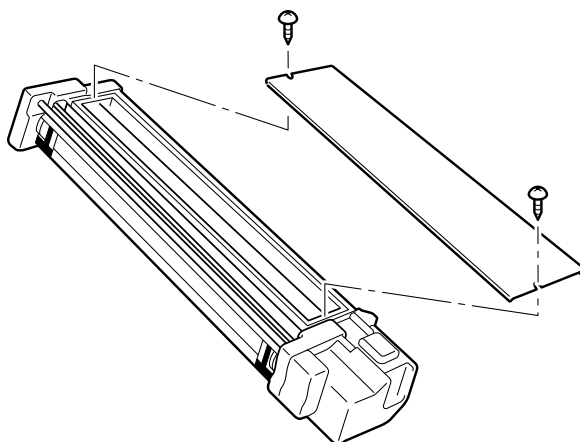


Figure 5-8

5.2 Preparation of the Developer Unit, continued

7. Remove one of the developer powder boxes from accessories Box 2.
8. One at a time cut the corner of each packet and add the developer powder to the developer unit as shown in Figure 5-9 and 5-10.
9. Evenly pour the contents of two packages of developer powder into the developer unit while rotating the developer drive gear in the direction of the arrow as shown in Figure 5-10.

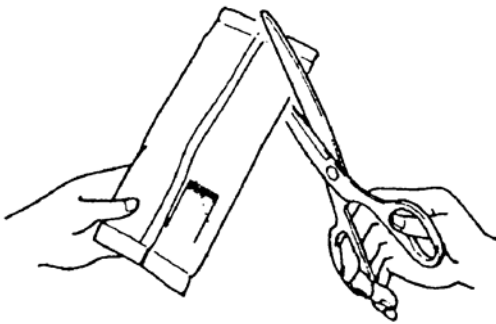


Figure 5-9

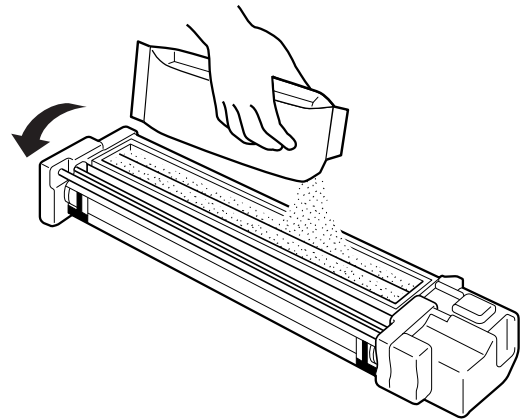


Figure 5-10

10. Re-install the developer unit lid.
11. Re-install the developer unit into the EP Drawer as shown in Figure 5-11.

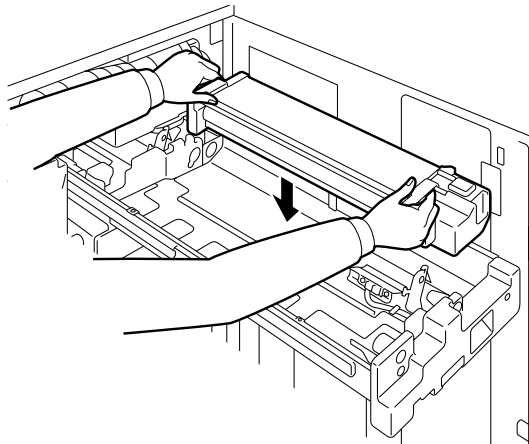


Figure 5-11

5.2 Preparation of the Developer Unit, continued

12. Install the OPC Cartridge in the EP Drawer as shown in Figure 5-12.

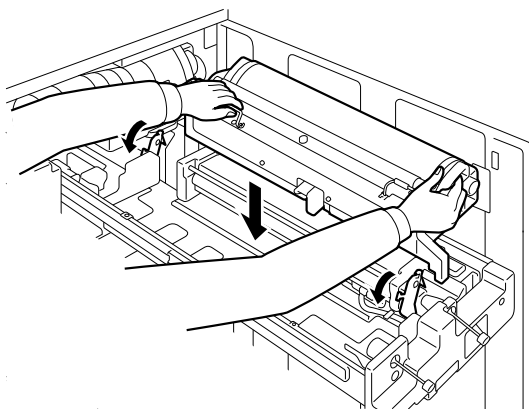


Figure 5-12

13. Install the Main Charger Unit on the OPC Cartridge as show in Figure 5-13.
14. Slide the EP drawer closed, Figure 5-14.

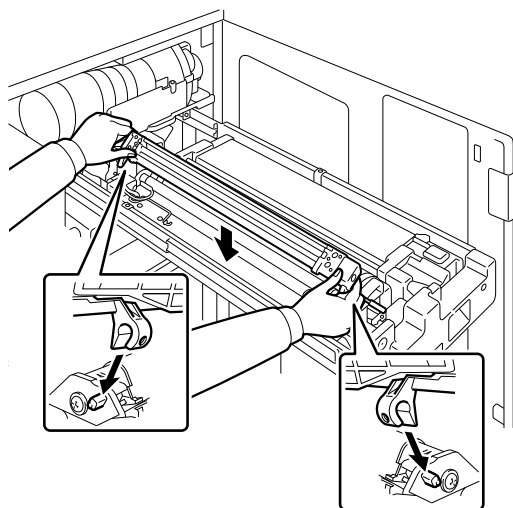


Figure 5-13

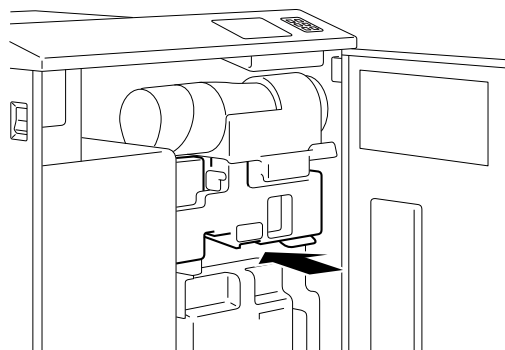


Figure 5-14

5.3 Controller Installation, Meto-Logic

⚠ CAUTION ⚠

The printer power cord must not be connected until after the controller has been installed.

1. Open lower Front Door.
2. Locate power strip above main power supply cabinet (see Figure 5-17).
3. Position the Controller in the lower cabinet as shown in Figure 5-15.
4. Connect the monitor AC power cord from the connector panel harness to the Unswitched AC receptacle of the Printer.

⚠ WARNING ⚠

Before installation, the Controller power supply voltage selector switch must be set to the 230V position.

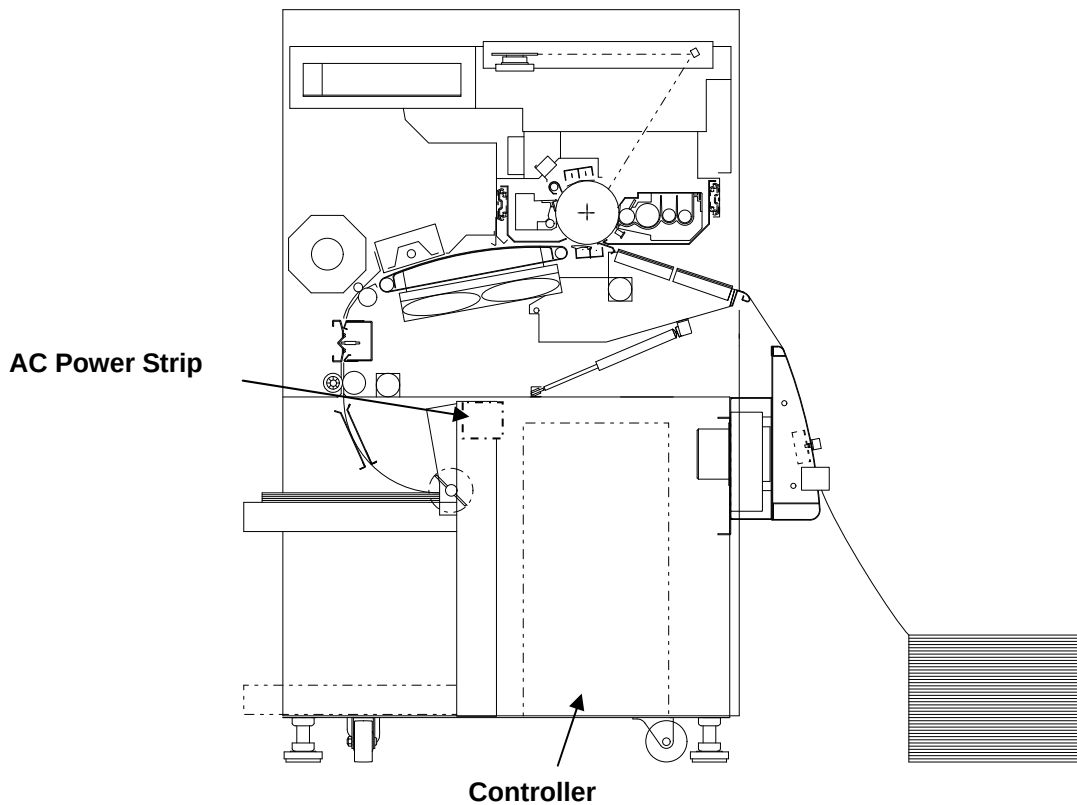


Figure 5-15

5.3 Controller Installation, Meto-Logic, continued

5. Attach the AC power cord supplied from the AC output receptacle of the power strip (Figure 5-17) to the input AC receptacle of the Meto-Logic controller.
6. Attach the AC power cord supplied from the AC input receptacle of the power strip to the Switched AC receptacle of the Printer as shown in Figure 5-17.
7. Attach one end of the ground strap to the rear of the controller frame and the other end to an available printer chassis screw as shown in Figure 5-16. Leave enough ground strap slack to allow the controller to be completely removed from lower cabinet for service.
8. Attach the appropriate data cables from the connector panel harness to the appropriate controller ports.

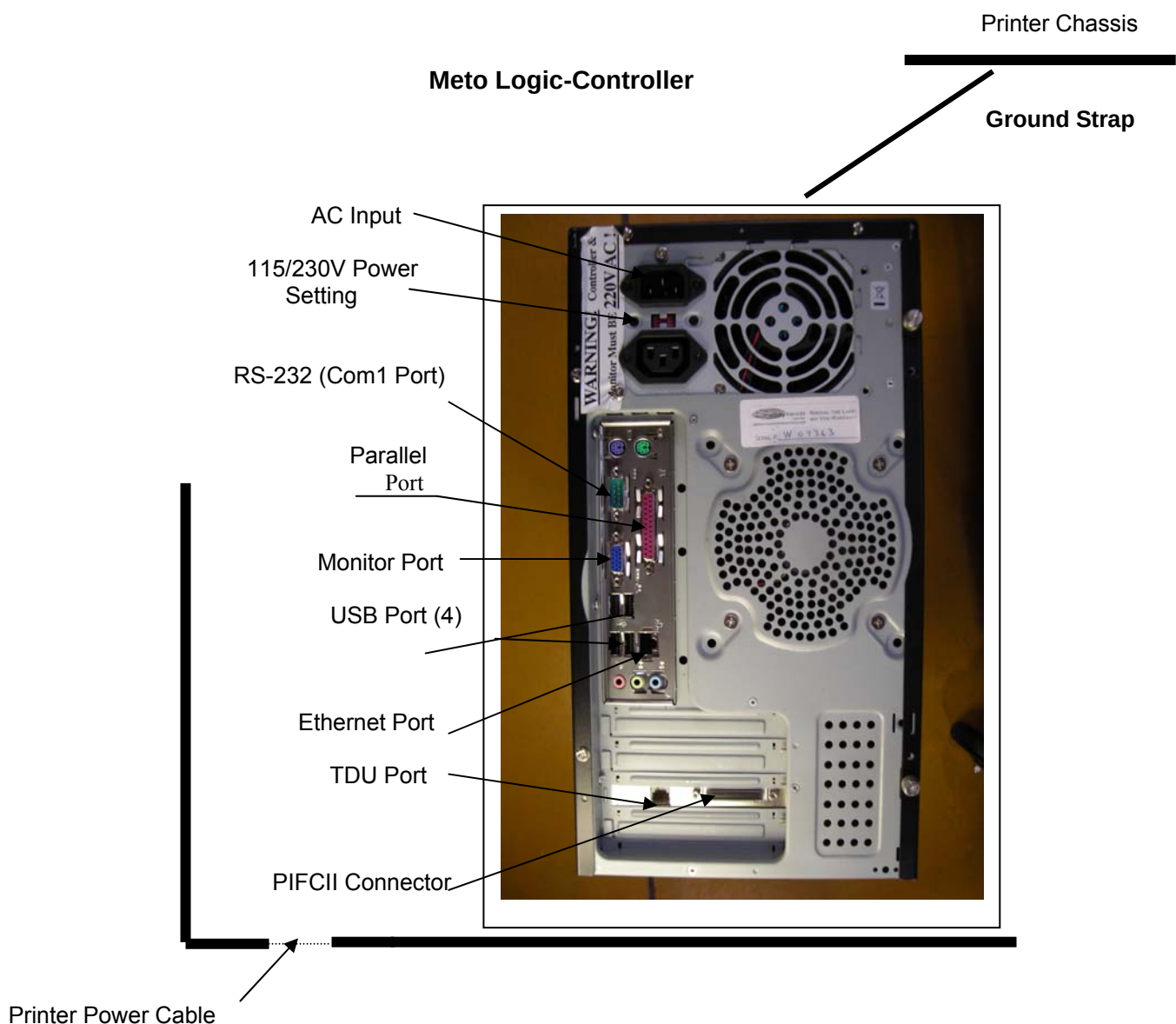


Figure 5-16

5.3 Controller Installation, Meto-Logic, continued

9. Attach the Blue TDU cable from the connector panel harness to the controller's TDU port as shown in Figure 5-16. Make sure the connector is securely seated.
10. Confirm that the controller voltage selector switch is set to the 230V position.
11. Place the Controller back into the lower printer compartment with the front of the controller facing the front door.

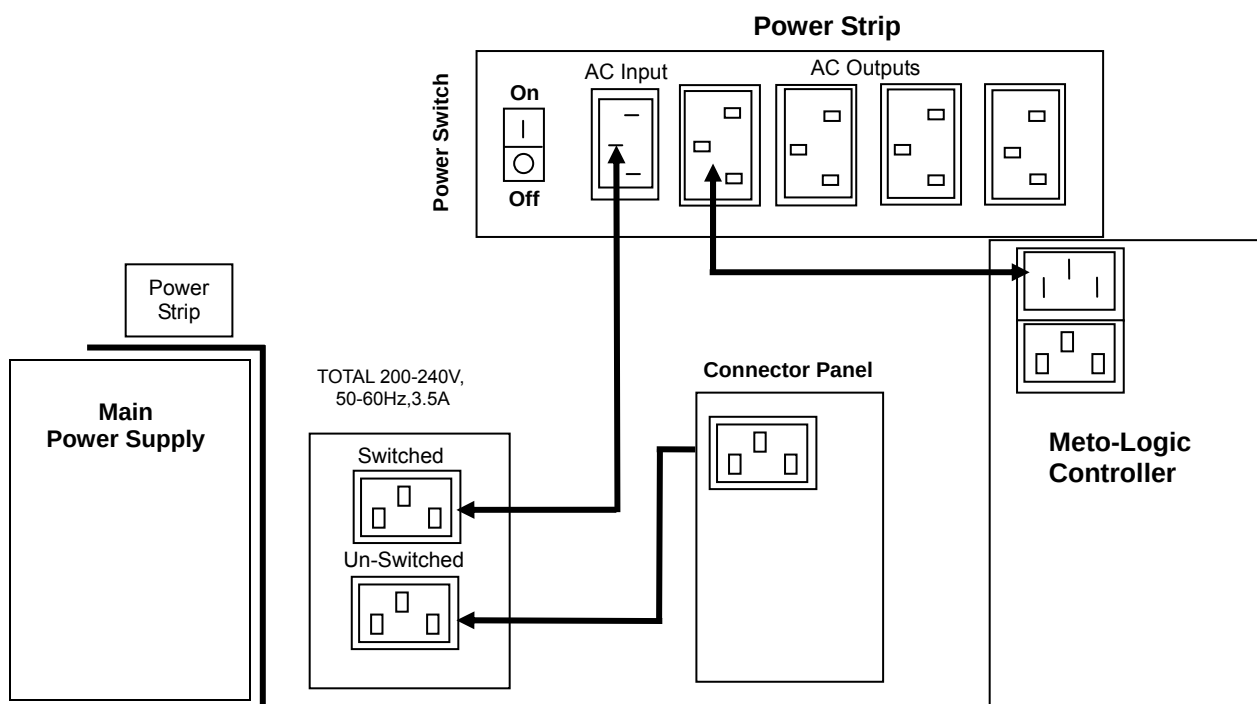


Figure 5-17

⚠ WARNING ⚠

Before connecting the Controller power cord, confirm that the Controller power supply voltage selector switch is set to the 230V position.

5.4 Storage of Test Print Samples

1. Test print samples printed during installation should be stored within the printer for future reference.
2. New print samples should be replaced in the printer each time a printer setting or a customer configuration has been altered.

Status page:

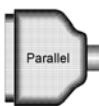
METO-Logic
Status Page

Communication



00:1D:7D:C2:63:78
METOC26378
Enabled
DHCP
Connected
10.27.129.228
255.255.255.0
10.27.129.1

Socket Buffer: 16
Raw Port No.: 9100
IPDS Port No.: 5001



ECP Mode
Disabled

For Service Only



Disabled
19200 Baud
No Parity
8 Data Bits
1 Stop Bit
RTS/CTS

Date: January 9, 2009
S/N: E900008

Resident Base Fonts

Coronet-Normal	Univers-Medium
Clarendon-Condensed	Univers-MediumItalic
AntiqueOlive-Bold	Univers-Bold
AntiqueOlive-Normal	Univers-BoldItalic
Garamond-Antiqua	Univers-MediumCondensed
Garamond-Kursiv	Univers-BoldCondensed
Garamond-Halbfett	Univers-MediumCondensedItalic
Garamond-KursivHalbfett	Univers-BoldCondensedItalic
AntiqueOlive-Italic	Marigold
CGTimes-Normal	Esselte-ASCII
CGTimes-Italic	Ess-ASCII-Bold
<i>CGTimes-Bold</i>	METO-ASCII-5256
CGTimes-BoldItalic	E-OCR-A
CGOmega	E-OCR-B
CGOmega-Italic	E-Swiss-Medium
CGOmega-Bold	E-Special-Sym
CGOmega-BoldItalic	Arial
Albertus-Medium	Arial-Bold
Albertus-Extrabold	Arial-Italic
LetterGothic	Arial-BoldItalic
LetterGothic-Italic	Symbol
LetterGothic-Bold	TimesNewRoman
Courier	TimesNewRoman-Bold
Courier-Italic	TimesNewRoman-Italic
Courier-Bold	TimesNewRoman-BoldItalic
Courier-BoldItalic	Wingdings

Primary font is bolded.
Auxiliary font is italicized.

Printer Emulations

Kodectscript Plus	Line Printer	HP PCL5e	IGP/PGL
Kodectscript	Hex Dump	IPDS (N/A)	IGP/VGL

Current emulation is bolded.

Hardware Information

Printer Model: LP 100R
Processor: Pentium IV 1.20 GHz
System Memory: 896 MB
Language: English
Dead Zone: Reduced
Job Cancel (Jam): Disable
Job Cancel (FE): Disable

OS Setup Version: C.00-01/FB
METO-Logic Release: 3.00.54
EIF II Version: 2.9-05
PIFC Board Type: II ID 05 / EC 03
MC1 Version: 4.0-02
MC2 Version: 3.0-00
SC Version: 4.0-00
Net Time Protocol: Disable
Net Time Server: 192.168.0.1

Current Configuration

Configuration: 000 (Default)
Form Height: 11.000"
Print Width: 14.500"
Vertical Adjust: 0.00 inch
Horizontal Adjust: 0.00 inch
Orientation: Portrait
Lines Per Inch: 6.000
Chars Per Inch: 10.000
Symbol Set: W1:Windows 3.1 Latin 1
HP PCL5e Margins: Standard
Line Termination: None
Error Recovery: Disabled
Image Density: Normal (1.0)
Material Type: Thin Paper

Field Check: On Panel
KOP Control Char: ^ (0x5E)
KOP Field ID: I (0x5B)
KOP End of Format: J (0x5D)
KOP Data Separator: , (0x2C)
KOP Missing Font: Use Cache Font
Resolution: 400
EAS Option: Disabled
Swing Mode: Disabled
Reverse Mode: Disabled
Burst Mode: Disabled
Energy Fusion: Low
Paper Suction: Auto
Roll to Roll Mode: Disabled
AIDC Mode: Enabled

24

5.4 Storage of Test Print Samples, continued

Error Log:

ERROR LOG		Date: December 5, 2008 S/N: E900008	
05/06/2008	12:24:59	0090040 - 200K PM - Schedule Service	
05/06/2008	12:24:59	0090040 - 400K PM - Schedule Service	
05/06/2008	12:24:59	0090040 - 600K PM - Schedule Service	
05/06/2008	12:24:59	0090040 - 800K PM - Schedule Service	
05/06/2008	12:26:13	0090040 - 200K PM - Schedule Service	
05/06/2008	12:26:13	0090040 - 400K PM - Schedule Service	
05/06/2008	12:26:13	0090040 - 600K PM - Schedule Service	
05/06/2008	12:26:13	0090040 - 800K PM - Schedule Service	
05/06/2008	12:26:20	0090040 - Successful Boot C400:G3.00.19:E2_2.0-01:M1_3.5-00:M2_	
05/06/2008	12:28:17	0090040 - 200K PM - Schedule Service	
05/06/2008	12:28:17	0090040 - 400K PM - Schedule Service	
05/06/2008	12:28:17	0090040 - 600K PM - Schedule Service	
05/06/2008	12:28:17	0090040 - 800K PM - Schedule Service	
05/06/2008	12:28:24	0090040 - Successful Boot C400:G3.00.19:E2_2.0-01:M1_3.5-00:M2_	
05/06/2008	12:31:23	0090047 - 200K PM - Schedule Service	
05/06/2008	12:31:23	0090047 - 400K PM - Schedule Service	
05/06/2008	12:31:23	0090047 - 600K PM - Schedule Service	
05/06/2008	12:31:23	0090047 - 800K PM - Schedule Service	
05/06/2008	12:31:30	0090047 - Successful Boot C400:G3.00.19:E2_2.0-01:M1_3.5-00:M2_	
05/06/2008	12:41:41	0090047 - Front Cover Interlock	
05/06/2008	12:41:49	0090047 - Errors Cleared	
05/06/2008	12:41:50	0090047 - 200K PM - Schedule Service	
05/06/2008	12:41:50	0090047 - 400K PM - Schedule Service	
05/06/2008	12:41:50	0090047 - 600K PM - Schedule Service	
05/06/2008	12:41:50	0090047 - 800K PM - Schedule Service	
05/06/2008	12:41:57	0090047 - Successful Boot C000:G3.00.21:E2_2.0-01:M1_3.5-00:M2_	
05/06/2008	12:43:34	0090047 - 200K PM - Schedule Service	
05/06/2008	12:43:34	0090047 - 400K PM - Schedule Service	
05/06/2008	12:43:34	0090047 - 600K PM - Schedule Service	
05/06/2008	12:43:34	0090047 - 800K PM - Schedule Service	
05/06/2008	12:43:41	0090047 - Successful Boot C000:G3.00.21:E2_2.0-01:M1_3.5-00:M2_	
05/06/2008	12:45:38	0090047 - 200K PM - Schedule Service	
05/06/2008	12:45:38	0090047 - 400K PM - Schedule Service	
05/06/2008	12:45:38	0090047 - 600K PM - Schedule Service	
05/06/2008	12:45:38	0090047 - 800K PM - Schedule Service	
05/06/2008	12:45:45	0090047 - Successful Boot C000:G3.00.21:E2_2.0-01:M1_3.5-00:M2_	
05/06/2008	13:01:09	0090055 - 200K PM - Schedule Service	
05/06/2008	13:01:09	0090055 - 400K PM - Schedule Service	
05/06/2008	13:01:09	0090055 - 600K PM - Schedule Service	
05/06/2008	13:01:09	0090055 - 800K PM - Schedule Service	
05/06/2008	13:02:23	0090055 - 200K PM - Schedule Service	
05/06/2008	13:02:23	0090055 - 400K PM - Schedule Service	
05/06/2008	13:02:23	0090055 - 600K PM - Schedule Service	
05/06/2008	13:02:23	0090055 - 800K PM - Schedule Service	
05/06/2008	13:02:30	0090055 - Successful Boot C000:G3.00.20:E2_2.0-01:M1_3.5-00:M2_	
05/06/2008	13:05:35	0090077 - 200K PM - Schedule Service	
05/06/2008	13:05:35	0090077 - 400K PM - Schedule Service	
05/06/2008	13:05:35	0090077 - 600K PM - Schedule Service	
05/06/2008	13:05:35	0090077 - 800K PM - Schedule Service	
05/06/2008	13:05:42	0090077 - Successful Boot C000:G3.00.20:E2_2.0-01:M1_3.5-00:M2_	
05/06/2008	13:07:55	0090077 - 200K PM - Schedule Service	
05/06/2008	13:07:55	0090077 - 400K PM - Schedule Service	

5.4 Storage of Test Print Samples, continued

Character Fill:

```
( ) * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P
* + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P
+ , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q
- , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R
- . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S
. / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T
/ 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U
' 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V
) 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W
. 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X
! 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y
! 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
: 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \
! 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \
! 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ]
' 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^
! 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^
) : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _
; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a
< = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b
: = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c
: > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d
: ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d e
' @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d e f
) A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d e f g
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d e f g h
! C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d e f g h i
! D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d e f g h i j
) E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d e f g h i j k
! F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ a b c d e f g h i j k l
```


5.5 Power Cord Connection

Note: If the printer is being installed in a country location other than the U.S. or Canada, it may be necessary to change the power cord. Consult Appendix B for further information.

1. Check that the printer circuit breaker is in the OFF position (Figure 5-18).

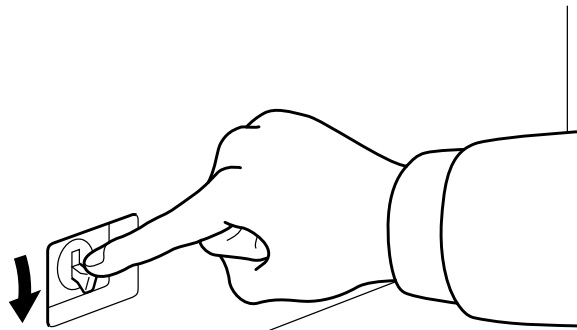


Figure 5-18

2. Check that the printer power switch, on the side of the printer is in the OFF (0) position (Figure 5-19).

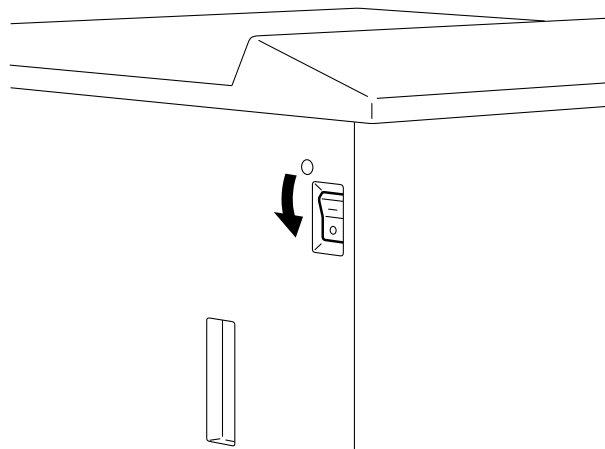


Figure 5-19

5.5 Power Cord Connection, continued

⚠ WARNING ⚠

Before connecting the Printer power cord, confirm that the Controller power supply voltage selector switch is set to the 230V position.

3. Plug the printer power cord into the wall outlet (Figure 5-20).



Figure 5-20

Note: For wall outlet specification, refer to Appendix C, "LP 100R Printer Equipment Specifications."

5.6 Main Power-On

⚠ WARNING ⚠
Before connecting the Printer power cord, confirm that the Controller power supply voltage selector switch is set to the 230V position.

1. Place the printer circuit breaker in the ON position, (Figure 5-21).

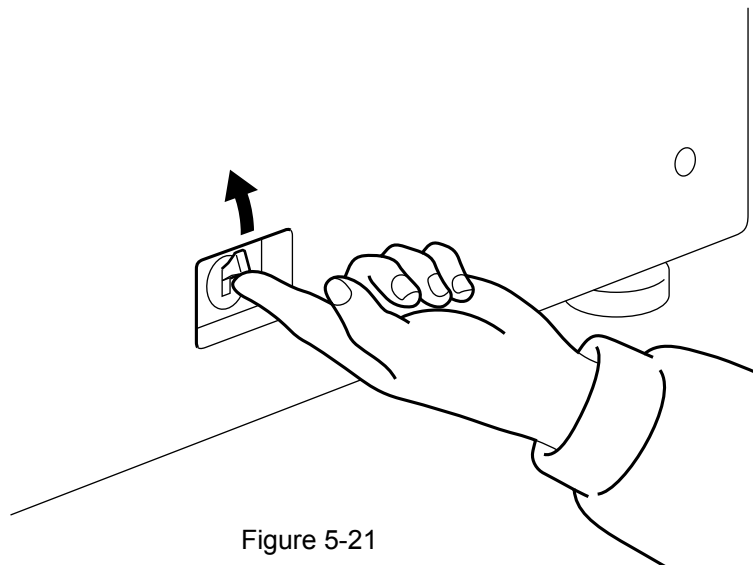


Figure 5-21

5.7 Controller Power-On

1. Turn the Printer's main Power switch On (see Figure 5-19).
2. Confirm that the Remote/Maintenance switch is set to Remote.
3. Toggle the Power On/Off switch on the Power Strip to the On position (see Figure 5-17).
4. To turn the Printer On, press the POWER LED switch (see Figure 5-23).

5.8 Entering Maintenance Mode

5.8.1 Turning the Controller's Power Off

Before entering Maintenance mode you must first turn off power to the controller. This is necessary when performing maintenance functions that may require sudden power off and on conditions. Turning power off to the controller allows you to work freely without damaging the controller:

1. Turn the Printer Off from the POWER LED switch.
2. Open the front door.
3. Locate the power strip located in the controller cabinet above the main power supply shelf.
4. Toggle the (RED) lighted on/off switch until the switch has been extinguished (power off).
5. Confirm that the position of the panel switch located near the mechanical counter points toward **MAINT** (Figure 5-22).

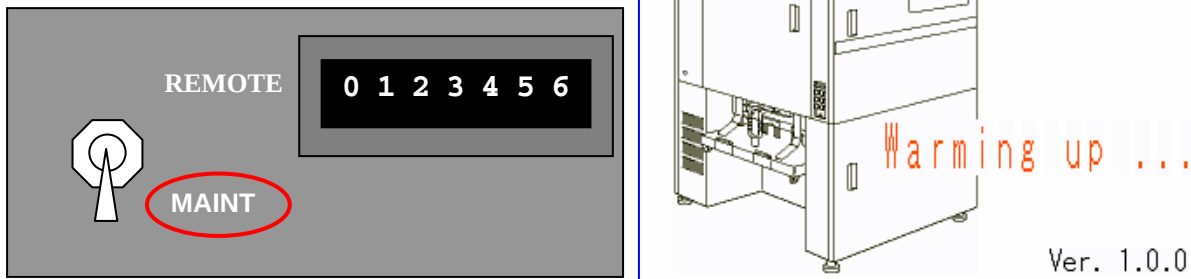


Figure 5-22

5.8.2 Turning the Printer's Power On

The printer can now be turned on/off with the POWER LED switch located on the operator panel (see Figure 5-23).

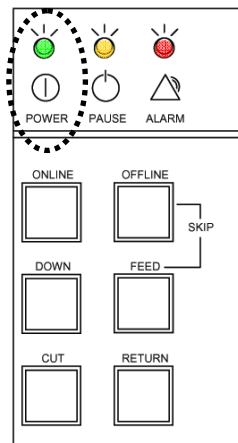


Figure 5-23.

- To turn the printer **Off**, press the **POWER** LED switch for a **minimum of 10 seconds**.
- To turn the printer **On**, press the **POWER** LED switch.

5.8.2 Turning the Printer's Power On, Continued

Note: After the warm-up sequence, the LCD display will boot to the Maintenance Mode Service display, Figure 5-24. Because paper has not yet been loaded, an “FMU: FORM UNLOADED” error message will appear on the bottom of the display. If forms had been loaded previously, and no errors are present, the Maintenance Mode display will appear without an error message (Figure 5-25).



Figure 5-24

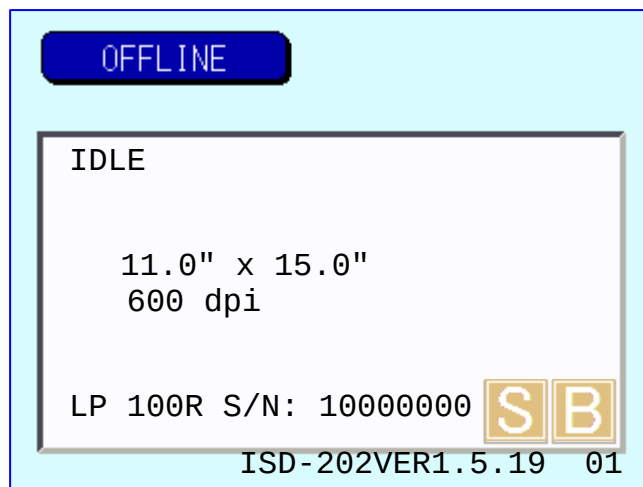


Figure 5-25

5.9 ATDC Adjustment

- When replacing the developer unit or replacing the developer starter, it is necessary to adjust the calibration of the ATDC sensor before using the printer.

Note: The developer unit comes supplied with four (4) packages of developer starter. Two (2) packages are used for the initial charge, and the remaining two (2) packages are to be replaced at the 400K interval.

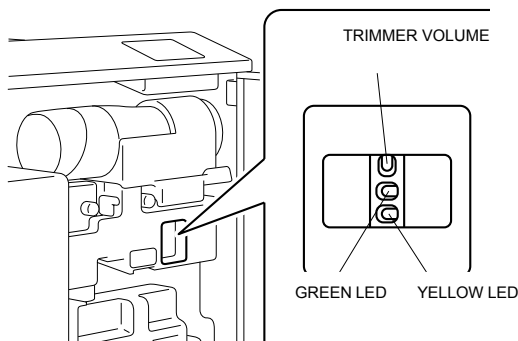


Figure 5-26

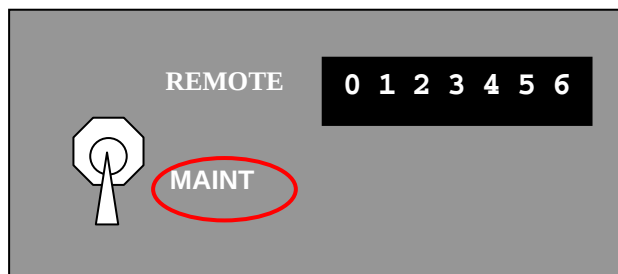


Figure 5-27

- Open front door and bypass front door Interlock switch with Interlock switch Jig.
- Set the Remote/Maintenance switch (Figure 5-27) to Maintenance.
- Press the Power switch.
 - Press [Off-Line]
 - [Maintenance]
 - [Service]
 - [Adjustment]
 - [Starter Adjustment]
 - [Enter]
 - [Are you sure?]
 - [Yes]
- The print engine will begin turning and the display will indicate "Adjust within 3 minutes." The printer is now ready for ATDC calibration.
- Adjust the developer unit potentiometer (Figure 5-26) until both the Green and Yellow LED indicators are completely OFF.**
- The ATDC adjustment mode will continue to run for approx. (3) three minutes and turn off.
- If the ATDC adjustment has not been accomplished by the time the mode has completed (3 minutes), the ATDC adjustment mode will have to be restarted.

Note: If you rotate the potentiometer counter clockwise, the green LED will turn off. If you rotate the potentiometer clockwise, the yellow LED will light up.

Note: If you rotate the potentiometer clockwise the yellow LED will turn off. If you continue to rotate the potentiometer clockwise the green LED will light up.

- Turn off the printer power and remove the front door interlock switch jig.

5.10 Toner Bottle Installation

1. Tap a new Toner Bottle against a desk or other hard surface four or five times as shown in Figure 5-28. Then turn the Toner Bottle upside down and tap it in the same way again.

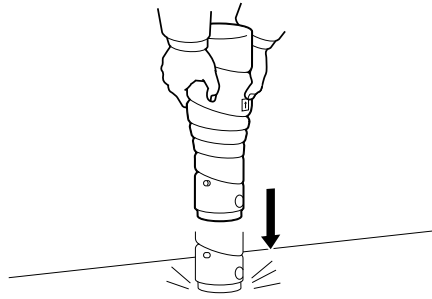


Figure 5-28

2. Shake the Toner Bottle vigorously while rotating the bottle at least five times, Figure 5-29.

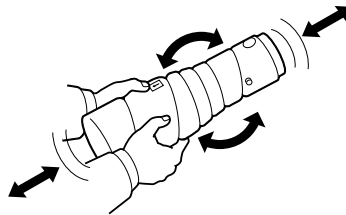


Figure 5-29

3. Swing out the Toner Bottle Holder, Figure 5-30.

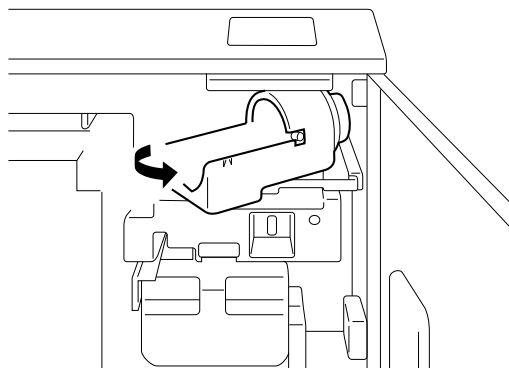


Figure 5-30

5.10 Toner Bottle Installation, continued

4. With the "UP" marking on top, insert the Toner Bottle into position as shown in Figure 5-31. Check that the black line on the Bottle is aligned with the Δ marking on the Toner Bottle.

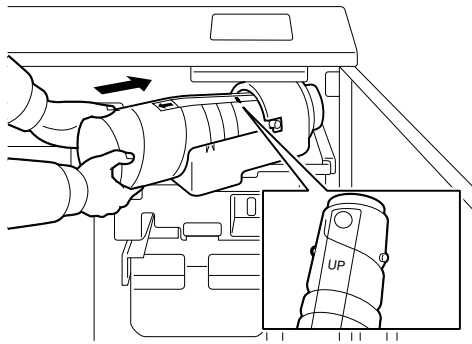


Figure 5-31

5. While supporting the Toner Bottle with your hand, gently pull the toner seal off of the Bottle as shown in Figure 5-32.

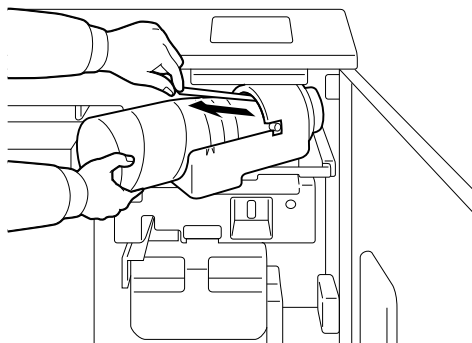


Figure 5-32

6. Swing the Toner Bottle Holder closed and close the Front Door, Figure 5-33.

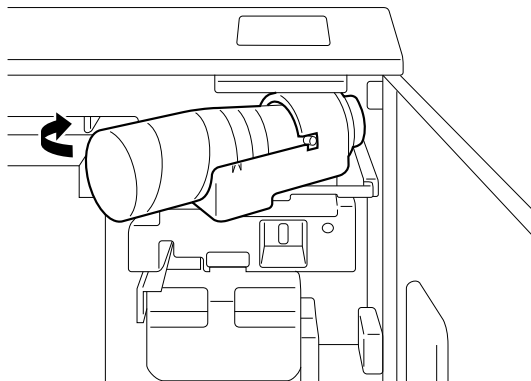


Figure 5-33

5.11 Power Off

1. Place the Printer Power Switch (Refer to Figure 5-19) into the off position.

5.12 Final Mechanical Check

1. After completing the installation, check the following mechanical functions.
 - Check the opening and closing of the Front Cover, Toner Bottle access cover and the left Side Cover.
 - Check the Stacker Assembly for smooth operation.
 - Check the Tractor Assembly for smooth up and down movement.
 - Check the EP Drawer for smooth operation as well as perfect locking and releasing.
 - Check Suction Brake unit for proper operation.
 - Check Web Guide roller for proper forms tension.
 - Check Swing Guide for proper operation (Optional).
 - Check Burster Unit for proper operation.

5.13 Leveling the Printer

One (1) level and a 20 mm open-end wrench are required for this procedure.

1. Once a proper location has been found for the printer, the printer should then be secured and leveled to the floor. The leveling feet at the base of the printer should be adjusted so that the lower surface of the printer frame is 70 mm above the floor surface as shown in Figure 5-34.

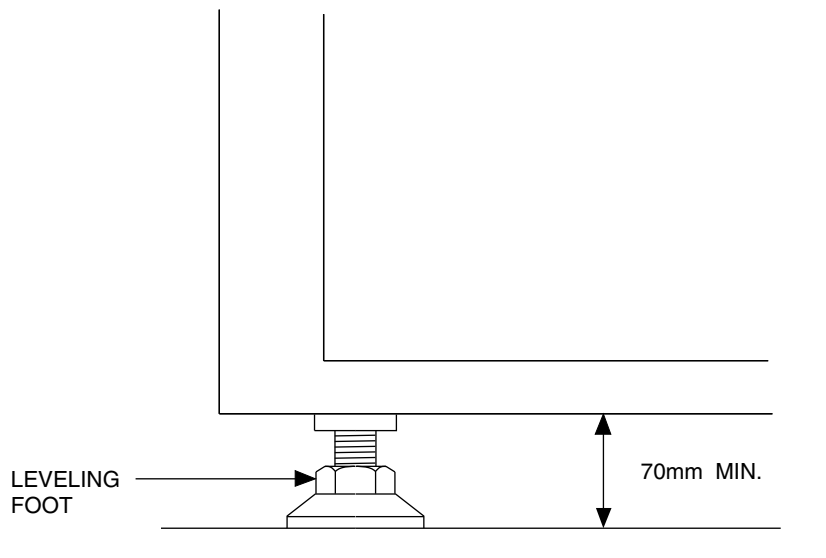


Figure 5-34

6.1 Equipment Specification

Consult Appendix C for LP 100R Equipment Specifications.

7.1 Equipment Installation Checklist Preparation

After completion of the installation, the Equipment Installation Checklist must be completed by the installer and submitted for review.

The Equipment Installation Checklist can be found in Appendix H. After completion, remove the checklist from this manual and immediately return to the specified address.

8.1 Paper Loading and Printing Test and Status Pages

1. If the installer is familiar with the procedures required to load paper and print test and status pages, he or she should perform them now and then proceed to the LP 100R Operator's Guide, document number 9855063, Chapter 3: Printer Operation for specific user configuration instructions.
2. If the installer is not familiar with these procedures, proceed to the LP 100R Operator's Guide, Chapter 3: Printer Operation for instructions.

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APPENDIX A

LP 100R PRINTER OPERATING LOCATION REQUIREMENTS

1.1 Operating Location Requirements

Before proceeding with the printer installation, check the following location requirements.

1.1.1 General Site Requirements

To ensure the utmost safety and prevent possible malfunctions of the printer, install it in a location that meets the following requirements:

1. Since toner spills can occur, do not locate the printer on vinyl chloride flooring or any other material not resistant to toner.
2. Locate away from objects that may catch fire easily.
3. Locate where there is no possibility of splashing liquids.
4. Locate in an area free from direct sunlight.
5. Locate out of direct air stream of an air conditioner, heater, or ventilator.
6. Locate in a dry place.
7. Locate in a dust-free place.
8. Locate on a stable surface.
9. Locate in a well-ventilated space.

1.1.2 Ventilation Requirements

Locate the printer in a well-ventilated room. A negligible amount of ozone is generated during normal operation of this printer. An unpleasant odor may, however, be created in poorly ventilated rooms during extensive printer operations. For a comfortable, healthy, and safe operating environment, it is recommended that the room be well ventilated.

Be sure to allow a clearance of 6 inches or more in the rear of the printer (at all times) for proper ventilation.

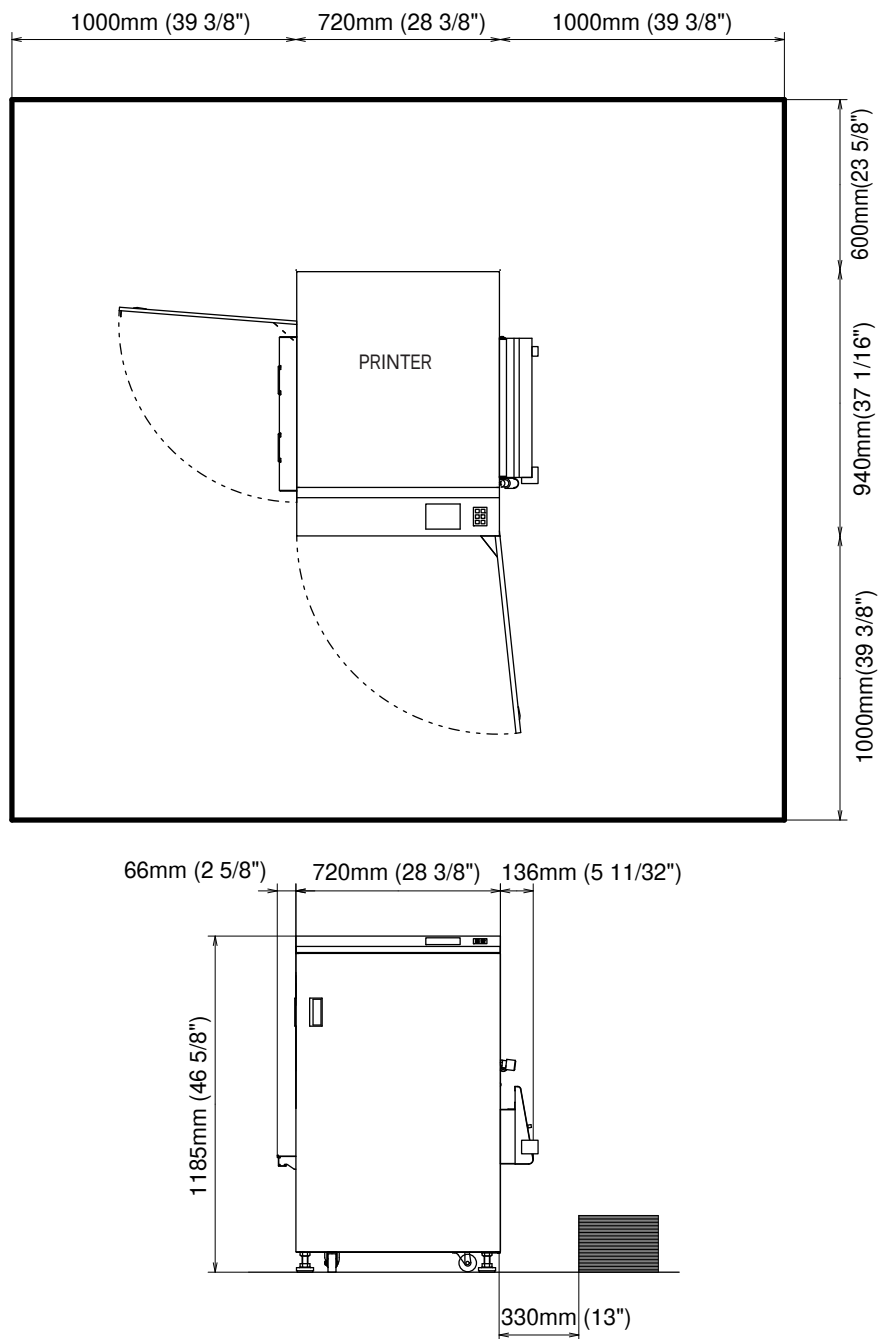
APPENDIX A

1.1.3 Clearance Requirements

1.1.3.1 Printer Size

Figure A-1 illustrates a front and top view of the printer that provides its overall dimensions as well as the height and total clearance required when the front and left side covers are fully opened.

Figure A-1 also provides proper media loading distance 13" from the media to the Suction Brake Unit.



APPENDIX A

1.1.3.2 Printer Clearance Requirements (Maintenance Area)

Figure A-2 illustrates a printer top view showing the minimum clearance required to maintain and repair the LP 100R printer. Taking into consideration the width and depth dimensions of the printer, a space approximately 9' (2.74 M) X 9' (2.74 M) is required.

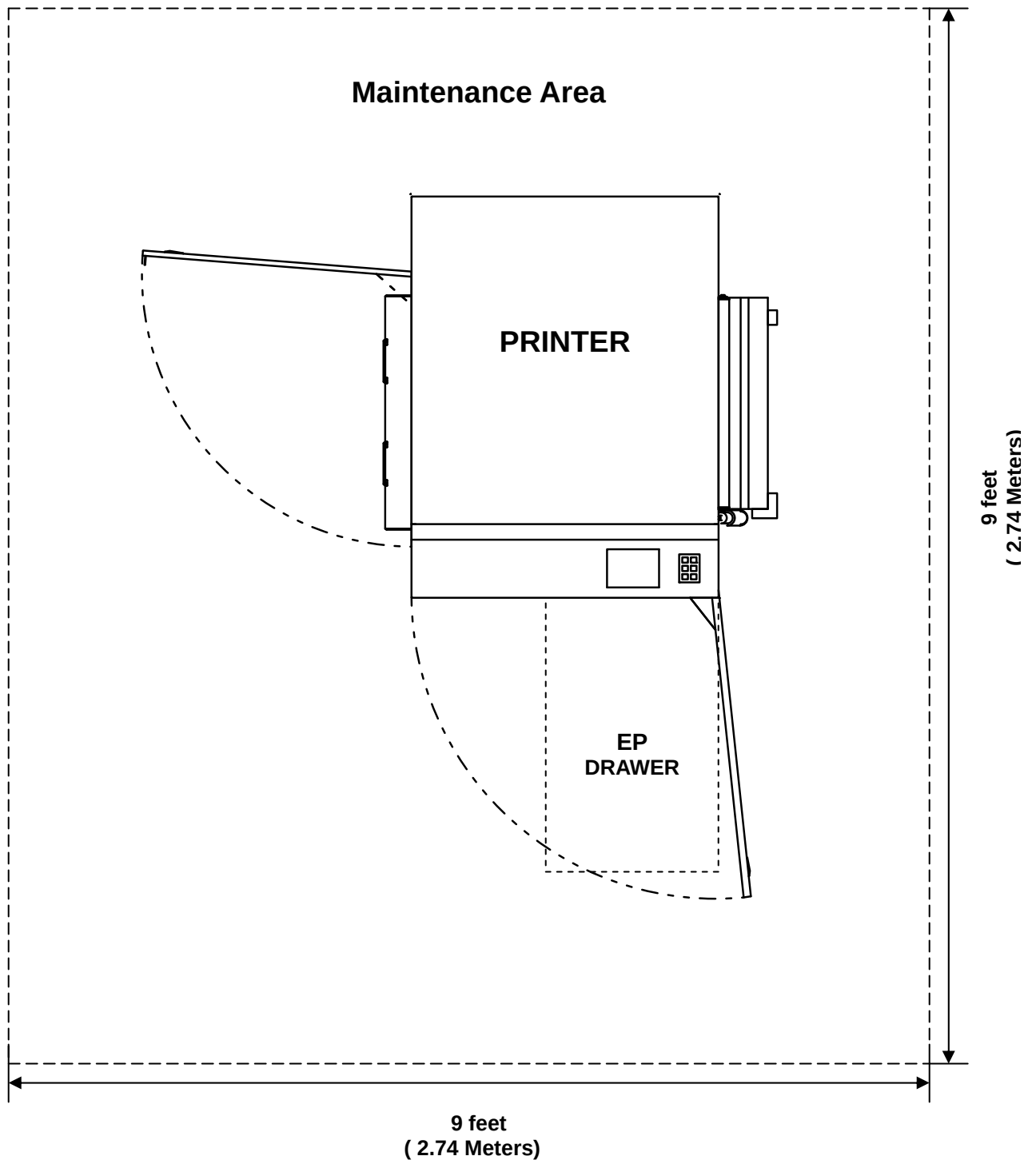


Figure A-2

APPENDIX A

1.1.3.3 Printer Clearance Requirements (Installed)

Figure A-3 illustrates a printer top view showing the minimum clearance required when a printer is moved to a wall. A minimum of 6" (inches) is required for proper printer ventilation.

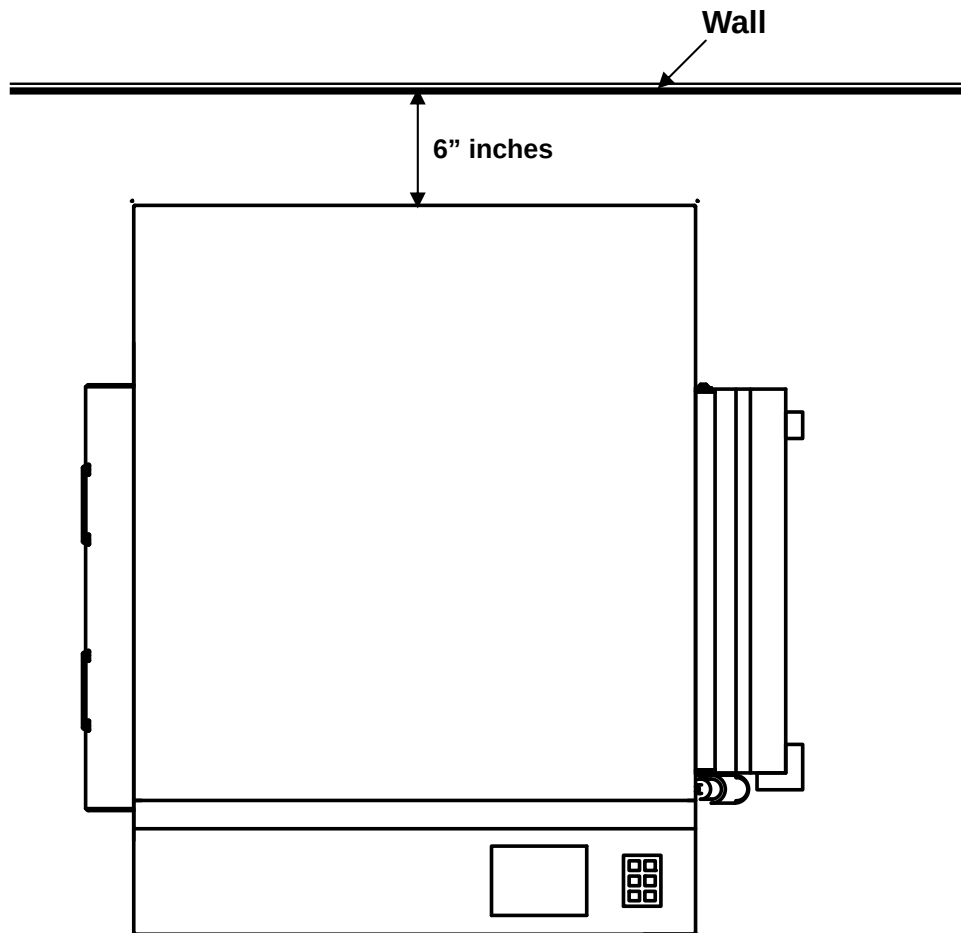


Figure A-3

APPENDIX A

1.1.4 Operating Environment Requirements

1.1.4.1 Temperature

50° F to 95° F (10° C to 35° C) with a temperature variation not exceeding 18° F (10° C).

1.1.4.2 Humidity

35% to 80% RH with a maximum fluctuation of 20% per hour.

1.1.5 Power Source and Grounding Requirements

1.1.5.1 Power Source

The power source requirements are as follows:

1. 200 to 240 VAC (50 or 60 Hz)
2. Use power source with low frequency fluctuations:
Frequency Fluctuation: Within $\pm 3\%$
3. An isolated, dedicated ground outlet (to prevent interference from other equipment, which can cause memory loss during printer operation).
4. Never connect any other appliances or machines to dedicated outlet.
5. The outlet must be located within 6' (2M) of the printer and easily accessible.

1.1.5.2 Grounding Requirements

To prevent receiving electrical shocks in the case of electrical leakage, always ground the printer.

Connect the grounding wire to one of the following grounds:

1. The ground terminal of the outlet.
2. A grounding contact that complies with the local electrical standards.



Never connect the grounding wire to a gas pipe, grounding wire for a telephone, or a water pipe.

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APPENDIX B

EUROPEAN POWER CONSIDERATIONS

1.1 POWER CORD INSTRUCTIONS (EUROPE)



DANGER

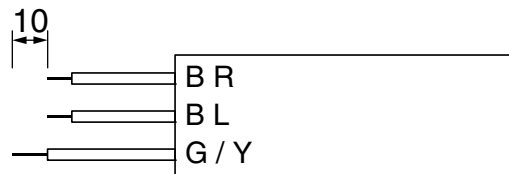
THIS APPARATUS IS SHIPPED WITH THE POWER SUPPLY CORD AND THE PLUG WHICH IS CERTIFIED FOR USA AND CANADA. IF IT IS USED IN EUROPEAN COUNTRIES, THE POWER SUPPLY CORD AND PLUG SHOULD BE CHANGED BY THE LAW AS FOLLOWING.

1.1.1 REPLACING THE POWER SUPPLY CORD

1. Remove the factory installed power supply cord.
2. To configure a new power supply cord, the following hardware and tools should be used.
The power supply cords for European Countries should meet the following standards:
(1) Should use three conductor wire whose nominal cross-sectional area is 2.5 mm or more each.
(2) Should be at 3000 mm $^{+20}_{-10}$ long.
(3) Should have '<HAR>' marking.
The terminals should be ring type, appropriate for 6 mm screw and wire as described above, having approval from VDE, TUV or other agencies.
Crimping tools for the terminals should be used in accordance with instructions by the manufacturer of the terminals.

	Rating Voltage	Length	Cross-section Area	Marking
Power Supply Cord	min 240V	3000 $^{+20}_{-10}$ mm	min 2.5 mm ² x3	<HAR>

3. Process the Power Supply Cord as follows.
Strip the Power Supply Cord in length of 40 mm
Cut the BLUE and BROWN wires 10mm shorter than the wire colored GREEN/YELLOW.
Strip the wires the appropriate length for the terminals to be used. Clamp the terminals on the wire using a tool in accordance with the instruction by the manufacturer of the terminal.



4. Install a new power supply cord to the Printer in accordance with following procedures.
The wire that is colored GREEN/YELLOW must be connected to the terminal in the printer that is marked with the letter FG.
The wire that is colored BLUE must be connected to the terminal in the printer that is marked with the letter N.
The wire that is colored Brown must be connected to the terminal in the printer that is marked with the letter L.

APPENDIX B

1.1.2 CONFIGURE THE PLUG

1. If the power supply cord is not provided with an attachment plug cap, configure a new plug to the power supply cord in accordance with following procedures.
2. Prepare a plug that has appropriate rating and agency approval as shown in the table below and proceed as follows:

Plug Type	Reference Standards
250V AC 25A	CEE 7-7
UK 240V AC 30A or more (INDUSTRIAL)	BS 4343 IEC 309-2 EN 60309-2 CEE 17

3. Configure the Power Supply Cord as follows:
Strip the Power Supply Cord.
Strip the wires as appropriate for the terminal of plug used.
4. Install a new plug to a power supply cord using the correct color configuration.
The wire that is colored GREEN/YELLOW must be connected to the terminal in the plug which could be marked by the letter E or PE or by the earth symbol or colored GREEN or GREEN/YELLOW.
The wire that is colored BLUE must be connected to the terminal in the printer that is marked with the letter N or colored BLACK.
The wire that is colored BROWN must be connected to the terminal in the printer that is marked with the letter L or W or colored RED.

1.1.3 CONFIRM THE GROUND

Please reconfirm that the grounding conductor in the supply cord is connected between the terminal in the printer that is marked with the letter FG and the terminal in the plug which could be marked with the letter E or PE or by the earth symbol or colored GREEN or GREEN/YELLOW.



WARNING

THIS APPARATUS MUST BE PROPERLY GROUNDED.

APPENDIX C

LP 100R PRINTER EQUIPMENT SPECIFICATIONS

Item	Description
1. Printing Method	■ Dry Electro Photographic ■ Laser Diode Exposure
2. Printing Speed	■ 3,300 LPM (6LPI)
3. Printing Resolution	■ 240/300/400/480/600 DPI (Changeable) ■ 400 is standard
4. Print Duty (B/W Ratio)	■ Max. 25% (TBD)
5. Fusion Method	■ Flash (Xenon Lamp)
6. Printing Area	
a) Maximum Width	■ Max. 17" (431.8 mm)
b) Maximum Length	■ Max. 23³/₄" (603.25 mm)
7. Paper	
a) Width	■ 6 to 18 inches (152.4 to 457.2 mm)
b) Length	■ 5 to 24 inches (127 to 609.6 mm)
c) Thickness	■ 3 to 11 MIL
8. Paper Supply (Height)	■ 11.8 inches (300 mm)
9. Paper (Swing Guide Option)	
a) Minimum Length	■ 7.5 inches
b) Maximum Length	■ 12 inches
c) Maximum Thickness	■ 4 MIL
10. Paper Stacker Capacity	
a) Maximum Height	■ 11.7 inches (297.2 mm)
b) Maximum Width	■ 18 inches (457.2 mm)
c) Maximum Length	■ 16 inches (406.4 mm)
11. Maximum Ejection Size	■ 18" (457.2 mm) width x 16" (406.4) ■ Standard stacker table is 12" (304.8 mm)

Table C-1
LP 100R Printer Specification, continued

APPENDIX C

LP 100R PRINTER EQUIPMENT SPECIFICATIONS, continued

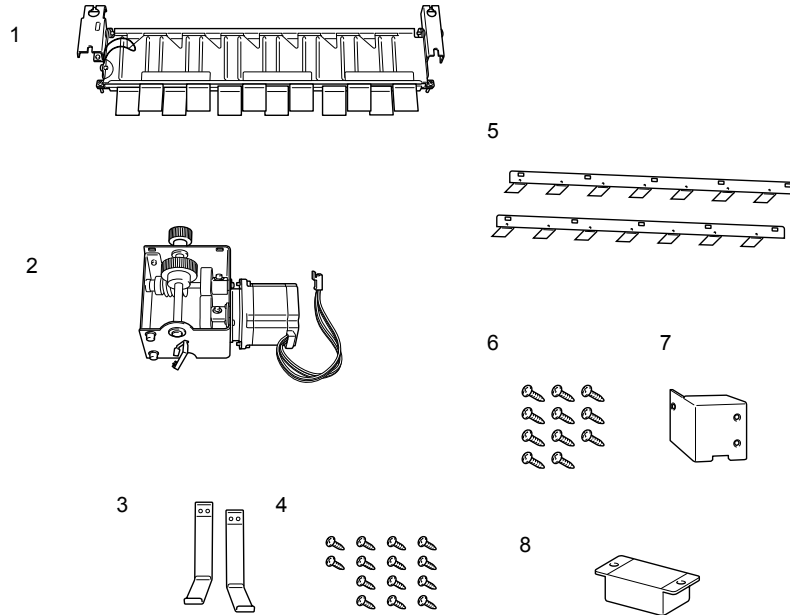
Item	Description
12. Power Source	■ Universal (AC 200 to 240 VAC) (50 or 60 Hz)
13. Heat Dissipation (BTU)	■ Operating: 8560 BTU/hr (2508 Wh) ■ Stand-by: 578 BTU/ hr (169.5 Wh)
14. Actual Current Draw	■ 16 Amp
15. Acoustic Noise	■ Stand-by: 50dB (A) or less ■ Printing: 62dB (A) or less
16. Wall Receptacle (U.S.)	■ LP-30R (NEMA)
17. Printer Dimensions	■ 47" (1,194 mm) height ■ 36" (914 mm) width ■ 37" (940 mm) depth
18. Printer Weight	■ 572 pounds (260 kg)

APPENDIX D

LP 100R SWING GUIDE INSTALLATION

1.1 SWING GUIDE INSTALLATION PROCEDURE

Packing list



1	Swing guide assembly	1	5	Paper guide	2
2	Swing guide drive motor assembly	1	6	Screw (4x8 mm)	11
3	Paper guide plate assembly	2	7	Cover (sensor)	1
4	Screw (3×5 mm)	14	8	Magnet assembly	1

- Note:**
- Lower the stacker table to the lowest position to facilitate the installation work.
 - Before starting the installation work, turn OFF the main POWER switch.

1. Open the front door, and remove the lower left cover (black) by removing the four screws as shown in Figure D-1.

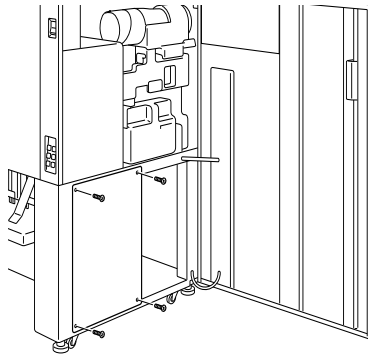


Figure D-1

APPENDIX D

SWING GUIDE INSTALLATION, CONTINUED

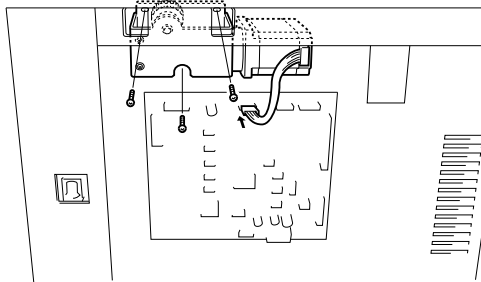


Figure D-2

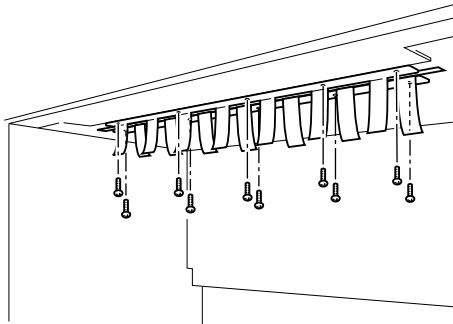


Figure D-3

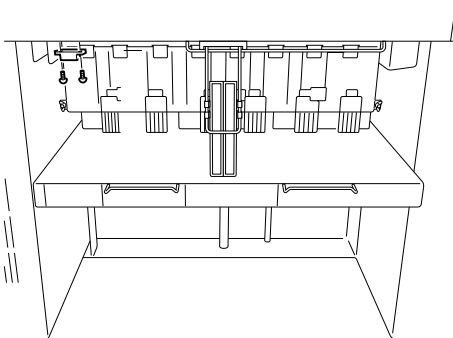


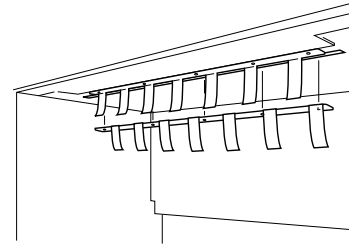
Figure D-4

2. Remove the blind plate from the printer frame for the swing guide drive motor assembly located above the PWB-F/SC board by removing the two screws.

Note: The removed blind plate is no longer necessary. Store it, if necessary.

3. Position the swing guide drive motor assembly while shifting it to the right of the printer body by temporarily fastening the three screws. (See Figure D-2)
4. Connect the connector (6P) from the swing guide drive motor assembly to PWB-F (PJ6). (See Figure D-2)
5. Install the two paper guides to the Printer body by fastening the five screws. (See Figure D-3)

The two paper guides (L and R) are identical with each other .



6. Mount the Magnet assembly to the printer body as shown in Figure D-4 and fasten with two screws.

APPENDIX D

SWING GUIDE INSTALLATION, CONTINUED

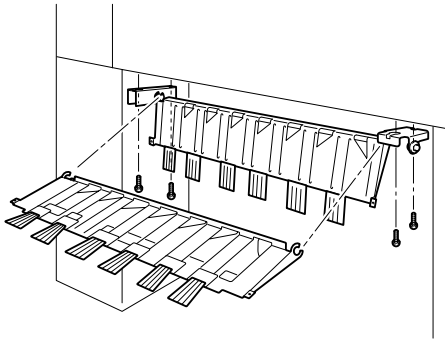


Figure D-5

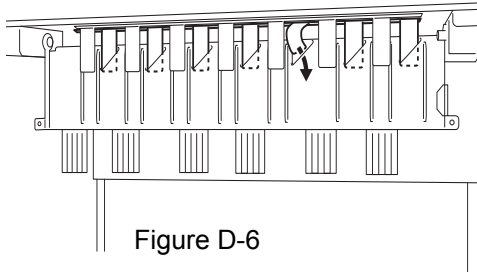


Figure D-6

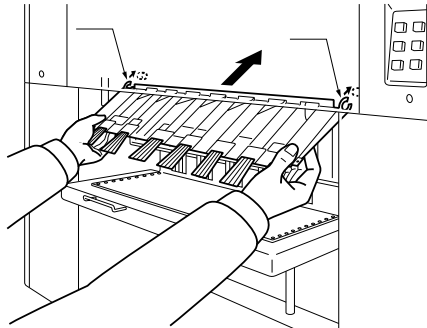


Figure D-7

7. Separate the two swing guide frame plates by removing the two thumb screws, and divide the swing guide assembly.
8. Install the inner swing guide assembly and mounting brackets (four screws) to the upper frame as shown in Figure D-5.

Note: To ensure proper installation of the swing guide assembly, temporarily fasten the screws at the front right, rear left, and rear right of the guide assembly. Then adjust the front and rear of the guide assembly to ensure proper alignment to the swing guide drive gear assembly and fasten the three screws. The remaining front left screws can now be fastened.

Note: To ensure maximum performance of the swing guide assembly, be sure that the swing guide drive motor gear and the swing guide drive gear are properly aligned.

9. Insert the guide film of the swing guide assembly (inner side) into the hole.(See Figure D-6)

10. Insert the swing guide front plate to the assembly by tilting it approx. 30 degrees (See Figure D-7)

APPENDIX D

SWING GUIDE INSTALLATION, CONTINUED

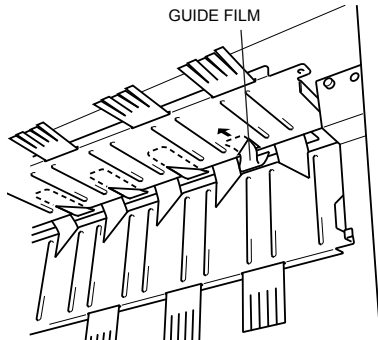


Figure D-8

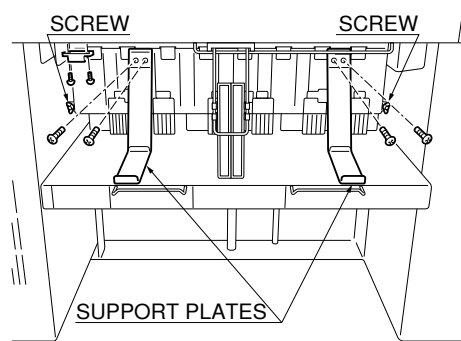


Figure D-9

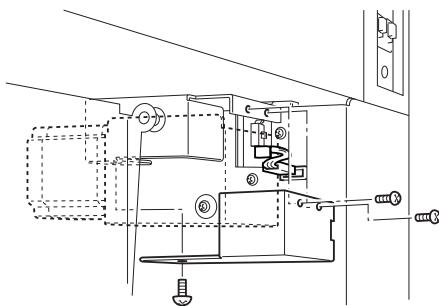


Figure D-10

11. Swing the front plate upward and secure up against the bottom frame of the printer against the stationary magnet.
12. Insert the guide film into the hole in the upper part of the swing guide (front side).(Figure D-8)

13. Lower the front plate down to the swing guide assembly and secure with the two knurled screws.
14. Install the two support plates. (Figure D-9)

15. Connect the swing guide drive gear assembly with the one connector. (Figure D-10)
16. Install the cover to the swing guide assembly (front side) by fastening the two screws.
17. Install the paper guide at 30mm inside from the paper edge.

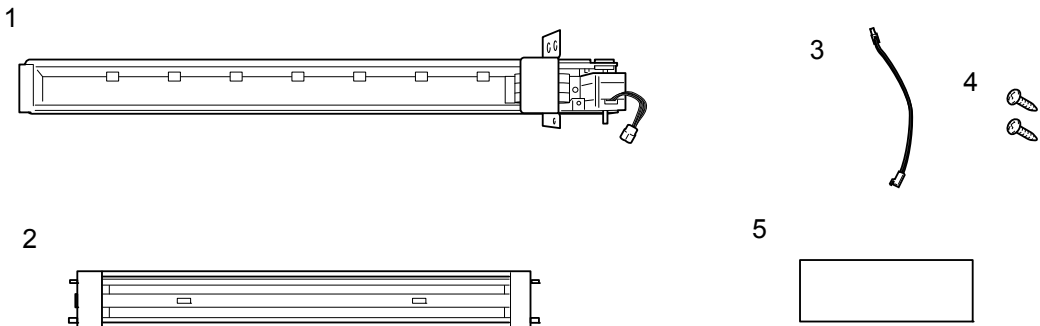
Note: When installing the burster unit, redo the connection of the burster unit.

18. Install the lower-left cover (black) by fastening the four screws, and close the front door.

APPENDIX E

LP 100R BURSTER UNIT INSTALLATION

Packing list:



1	Burster unit	1	4	Fixing screws (4×8 mm)	2
2	Paper guide	1	5	Label	1
3	Harness assembly	1			

Caution: Before starting the installation, turn OFF the main POWER switch.

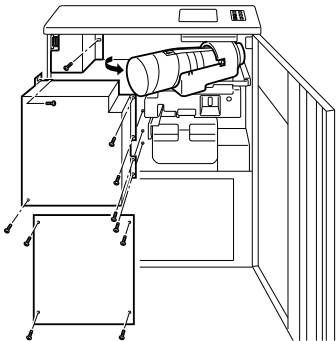


Figure E-1

1. Open the front door, and open the toner bottle.
2. Remove the cover before the fusing unit by removing six screws, the upper-left cover by removing one screw, and the lower-left cover by removing four screws.

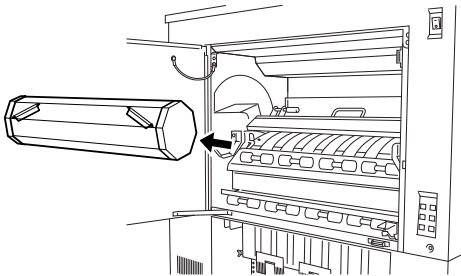


Figure E-2

3. Open the left-side door and remove the fuser filter. (Figure E-2)

APPENDIX E

BURSTER UNIT INSTALLATION, CONTINUED

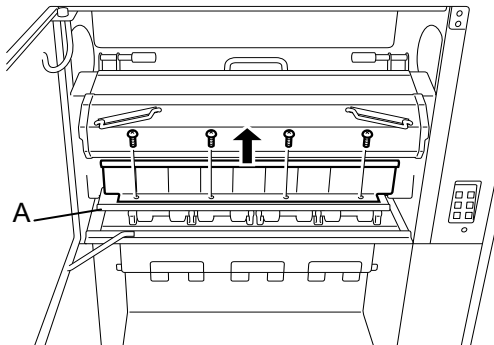


Figure E-3

4. Remove the exit guide A by removing the four screws. (Figure E-3)

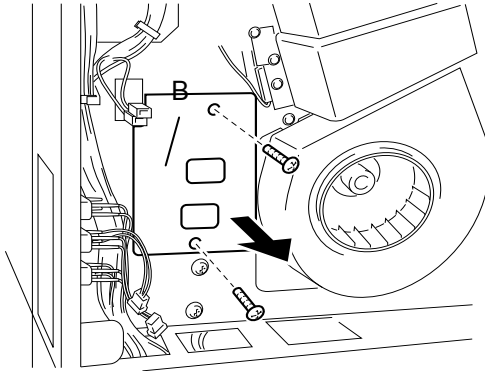


Figure E-4

5. Remove the exit guide B by removing the two screws. (Figure E-4)

Note: The exit guide A and B are no longer necessary together with the screws when the burster unit is installed. Store it, if necessary.

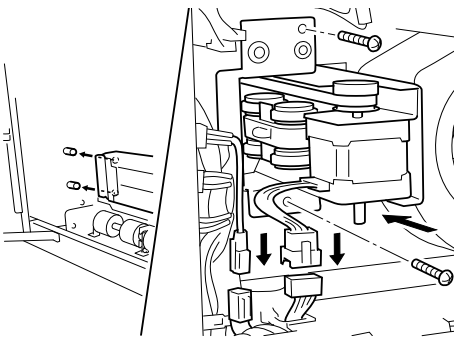


Figure E-5

6. Install the paper guide on to the burster unit.
7. Install the harness on to PWB-F to the PJ-7 connector. Install the harness in the cable clamp. (Figure E-5)
8. Install the burster unit with 2 screws and 2 connectors.
9. Connect the harness to the burster.
10. Connect the burster home sensor harness, located in the harness.
11. Install all covers in their original positions.
12. Stick the Burster Jam Removal Instruction Label to the inside of the left cover.
13. Close the left door.

APPENDIX F

LP 100R IPDS USB KEY INSTALLATION

1. To enable the IPDS Emulation, the Sentinel Key shown below must be installed into the USB port of the Meto-Logic controller.

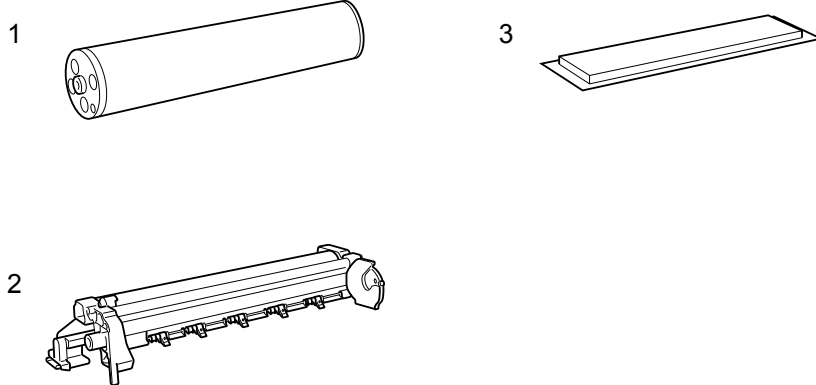


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APPENDIX G

LP 100R PC CARTRIDGE INSTALLATION

Packing list



1	PC drum	1	2	PC cleaning unit	1
			3	Cleaner blade	1

Note1: Before starting the installation, turn the printer OFF.

1. Install the new PC drum to the stops in the cleaning unit as shown in Figure G-1.

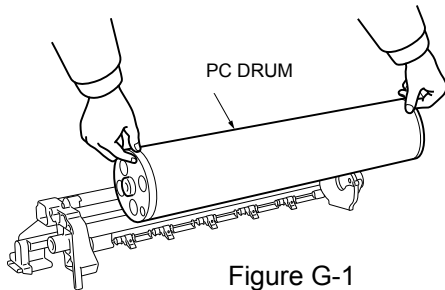


Figure G-1

Note: To avoid damage to PC drum surface, avoid direct contact to surface.

Note: Use the supplied cleaning pad or other suitable item to shield the PC drum from contact damage and prolonged exposure to light.

2. Re-install the PC cartridge in the EP drawer as shown in Figure G-2.

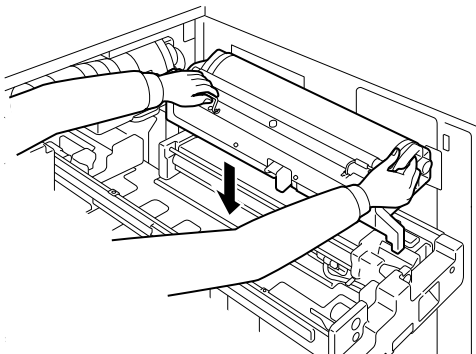


Figure G-2

APPENDIX G

LP 100 R PC CARTRIDGE INSTALLATION, CONTINUED

3. Re-install the Main Charger Unit as shown in Figure G-3.
4. Slide the EP Drawer closed.

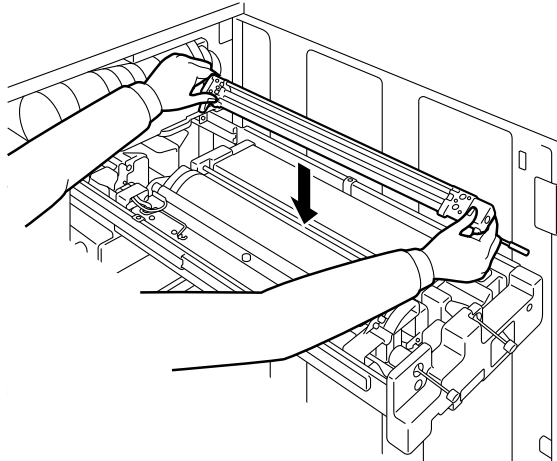


Figure G-3

APPENDIX H

LP 100R PRINTER EQUIPMENT INSTALLATION CHECKLIST

In order to permit the SATO Printer Product Support Group to maintain an adequate Customer Database for those Customers using the LP 100R Printer, it is imperative that the attached Equipment Checklist be completed, removed from Appendix H, and returned to the SATO Product Support Group after installation has been completed.

Please keep in mind that without adequate documentation, the SATO Help Desk may be unable to quickly respond to your request for technical assistance, should the need to do so arise.

APPENDIX H

LP 100R PRINTER EQUIPMENT INSTALLATION CHECKLIST

CUSTOMER DATA

Company Name: _____

Company Address: _____

Contact Name: _____

Location of closest Airport: _____

Distance from Airport to Customer site: _____

SALES DATA

Sales Representative Name: _____

EQUIPMENT DATA

Date Received: _____

Did the printer shipping container or any additional containers sustain any damage in-transit?

☐ Yes

☐ No

If Yes, please describe the damage: _____

Date Equipment Installed: _____

Did the Customer provide Dedicated A.C. Lines?

☐ Yes

☐ No

Printer Serial Number: _____ Page Counter = _____

Was either the Printer or the Controller or any optional equipment damaged in any way? ☐ Yes ☐ No

If Yes, please describe damage: _____

APPENDIX H

Equipment Checklist, continued

Customer Name: _____

Were the following items received with the Printer?

Accessory Box No.1, 2, and 3	☐ Yes	☐ No
------------------------------	------------------------------	-----------------------------

Were the following items received in the accessory boxes?

Accessory Box No.1

Toner Bottle (1)	☐ Yes	☐ No
------------------	------------------------------	-----------------------------

Paper Stopper (1)	☐ Yes	☐ No
-------------------	------------------------------	-----------------------------

Developer Starter (2) boxes	☐ Yes	☐ No
-----------------------------	------------------------------	-----------------------------

Accessory Box No.2

Suction Brake Unit (1)	☐ Yes	☐ No
------------------------	------------------------------	-----------------------------

Cleaning Cloth (1)	☐ Yes	☐ No
--------------------	------------------------------	-----------------------------

Cleaning Brush (1)	☐ Yes	☐ No
--------------------	------------------------------	-----------------------------

Cleaning Pen (1)	☐ Yes	☐ No
------------------	------------------------------	-----------------------------

Accessory Box No.3

Universal Web Guide (1)	☐ Yes	☐ No
-------------------------	------------------------------	-----------------------------

Conveyor Roller(1)	☐ Yes	☐ No
--------------------	------------------------------	-----------------------------

Installation Procedure	☐ Yes	☐ No
------------------------	------------------------------	-----------------------------

Were the following items received with the Controller?

Controller Power Cord	☐ Yes	☐ No
-----------------------	------------------------------	-----------------------------

Power Cord Adapter	☐ Yes	☐ No
--------------------	------------------------------	-----------------------------

LP 100R Installation Guide	☐ Yes	☐ No
----------------------------	------------------------------	-----------------------------

LP 100R Operations Manual	☐ Yes	☐ No
---------------------------	------------------------------	-----------------------------

APPENDIX H

Equipment Checklist, continued

Customer Name: _____

Were any parts missing from the Printer or the Controller? ☐ Yes ☐ No

If Yes, which parts? _____

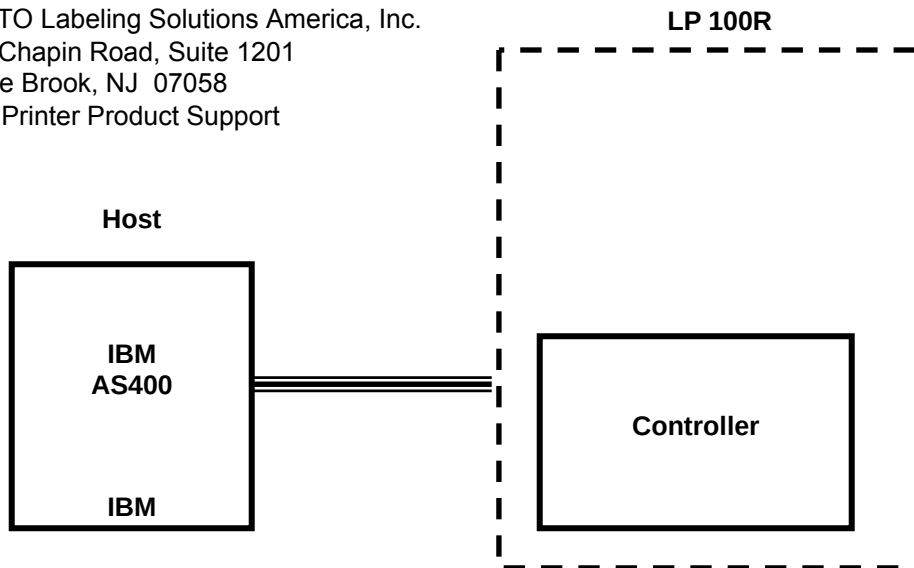
Please enter comments you wish to make: _____

Please attach the following to this checklist:

1. The Printer Status Page
2. Samples of each document printed on the LP 100R Printer
3. A system block diagram for the installed printer (See typical system example below). A simple block diagram will do.

Return Checklist with attachments to:

SATO Labeling Solutions America, Inc.
30 Chapin Road, Suite 1201
Pine Brook, NJ 07058
Att: Printer Product Support



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SATO America, Inc.

LP 100R
Installation Guide

Publication
ID # 9855148
March 2009

RELATED PUBLICATIONS

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