

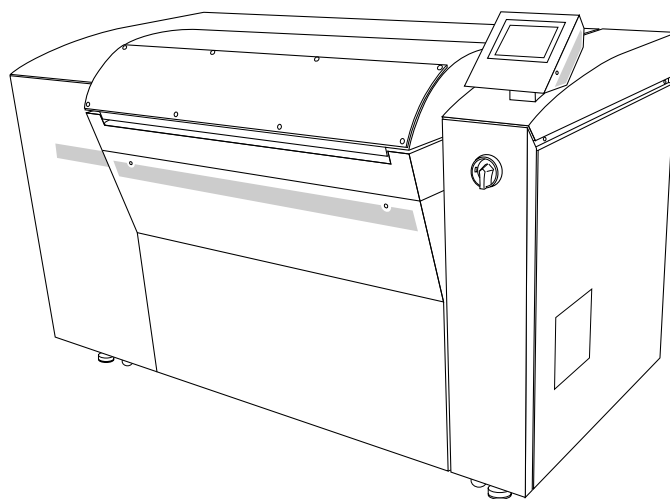
For operators (including
the machine administrator)

USERS MANUAL

Thermal Plate Recorder

late R ite 4300

PT-R4300
Ver. 1.0-



Before attempting to operate this product, you should thoroughly read and fully understand the contents of this manual.

The administrators of the PT-R4300 should not let anyone who does not understand the contents of this manual operate or inspect the PT-R4300.

To Prevent Danger

To prevent accidents from occurring, follow the procedures and cautions indicated in this manual. Safety information for the prevention of danger is given on pages ii and iii, and in Chapter 1, of this manual. From Chapter 2 on, safety information is provided for any work or operation which is potentially dangerous.



A request to the administrators of the PT-R4300

Be sure to deliver this manual by hand to the operators and maintenance personnel for the PT-R4300.

Operation of the PT-R4300

All operators and maintenance personnel for the PT-R4300 must read and understand all the contents of this manual before operating the machine or performing maintenance work on it.

Use and storage of this manual

After reading this manual, keep it nearby the PT-R4300 for immediate reference whenever necessary. As a safeguard in case the manual is lost, write down or make a copy of the Dainippon Screen sales offices and agencies listed at the end of this manual.

WARNING

- Do not turn on the power of the PT-R4300 until you fully understand all of the safety warnings.
- Do not perform any operations not listed in this manual. If instructions in this manual are not followed, a serious accident or disaster may result.

Safety information in the USERS MANUAL

In the text of this manual, we draw your attention to and supply safety information about matters accompanying operations of the PT-R4300 which are potentially dangerous to you or the people around you. Be sure to read this information well and act in accordance with it. As described below, the signal words that accompany this safety information differ according to the level of danger.

WARNING Signal word

This signal word is used for situations where death or serious injury to the user may result if the warning is ignored and the instrument is used improperly.



CAUTION Signal word

This signal word indicates a potentially hazardous situation which, if not avoided or properly handled, could possibly result in minor or moderate injury.



Warning labels

Warning labels have been attached to parts of the PT-R4300 which are of potential danger to operators and maintenance personnel, or which may cause damage. The warning labels are divided into two types depending on the level of danger: “WARNING” and “CAUTION.” As explained below, each type is displayed using a different signal word. Make sure you understand the contents of the labels well and act in accordance with them. Operating the PT-R4300 while ignoring these labels may result in an accident.

Signal word

WARNING WARNING indicates potentially hazardous situations which, if not avoided, could result in death or serious injury.

Signal word

CAUTION CAUTION indicates a potentially hazardous situation which, if not avoided or properly handled, could possibly result in minor or moderate injury.

Compliance with CISPR22 Rules

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Compliance with FCC Rules

Notice for the USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

Changes or modifications not expressly approved by Dainippon Screen Mfg. Co., Ltd. could void the user's authority to operate the equipment.

Notice for Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

When exporting the PT-R4300

International transfer of this equipment, any of its parts, components and/or software must be carried out in compliance with the relevant laws and ordinances of the country of export and the country of equipment end-use. We do not assume any responsibility or liability for equipment transferred without regard to proper export/import regulations or procedures.

Harmonics experiments

Since the EUT is fall into definition as "high-power equipment (same or over 1kW) for professional use" which is specified in clause 7 of EN 61000-3-2: 1995, the harmonics testing did not applied. Before installing the machine, you may have to acquire the permission of your local electrical power provider.

Liability

- Changes in the specifications may occur due to improvements in the product made without prior notice. Therefore, be aware that it is possible that a portion of this manual may not match exactly with your product.
- Dainippon Screen takes absolutely no responsibility for results that occur if the product is used for purposes or applications other than the original ones intended for the PT-R4300 or other than those expressed in a contract made beforehand.
- Dainippon Screen accepts no responsibility for any damages that occur to the product, programs, or software due to situations that it has no control over such as remodeling, disassembly, misuse, or inadequate environment provided by or performed by the customer.
- Dainippon Screen will bear absolutely no responsibility for any lost profits or damages resulting from the operation of this machine.
- All information appearing in this manual is provided only as a reference for operating the PT-R4300 and, as such, contains no legal value and should in no way be used for any legal purpose.

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Introduction

Thank you for purchasing the Dainippon Screen Thermal Plate Recorder PlateRite 4300.

The PT-R4300 is intended for the purpose of exposing image data on a printing plate by laser.

We are confident that the PT-R4300 will provide you with many years of high quality recording performance.

About this manual

This manual is written for operators of the PT-R4300. It describes operation procedures and safety precautions. All operators of the PT-R4300 should be well grounded in these precautions and make every attempt to use the PT-R4300 safely. Although we have made every attempt to make this manual as clear and accurate as possible, if you notice any omissions, or any section that is unclear or erroneous, please contact Dainippon Screen.

Expressions used in this manual

In this manual, procedures and explanations have alert symbols and signal words to signify degree of importance, similar to safety warnings. These are shown below.



: Indicates items that will cause improper operation if performed. These items must never be performed.



: Indicates items that must be performed for proper operation. These items must always be performed.



: This alerts you that the PT-R4300 has been damaged or that a restoration operation that requires time is taking place and/or that materials are being wasted. Be sure to follow the instructions.



: This provides supplemental explanations and hints for avoiding operational errors.

Other terminology used in this manual

- Unless otherwise specified, the Thermal Plate Recorder PlateRite 4300 will be referred to by PT-R.
- Brackets ([]) are used to enclose the names of menus and buttons.

Related manuals

In addition to this manual, Dainippon Screen also provides the following manual, which is related to the PT-R. Please use in conjunction with the PT-R.

Document name	Parts Code	Contents
SA-L4300 USERS MANUAL	100027911V00	A detailed explanation of the Single Cassette Auto Loader for the PlateRite 4300
MA-L4300 USERS MANUAL	100027914V00	A detailed explanation of the Multi Cassette Auto Loader for the PlateRite 4300
AT-T4000 USERS MANUAL	70199558	A detailed explanation of the Processor Bridge AT-T4000

The structure of this manual

- Chapter 1 Ensuring Safety**
This chapter gives information necessary for safe use of the PT-R.
- Chapter 2 Installing and Moving the PT-R**
This chapter explains precautions for installing and moving the PT-R.
- Chapter 3 Names of Each Part**
This chapter gives an overview of the PT-R and explains its configuration.
- Chapter 4 Basic Operation**
This chapter explains the basic procedures for operating the PT-R.
- Chapter 5 User Menu**
This chapter explains the procedures for setting PT-R parameters.
- Chapter 6 Maintenance**
This chapter explains daily maintenance and inspection procedures for the PT-R.
- Chapter 7 Messages**
This chapter explains the messages that appear in the display of the PT-R operation panel.
- Chapter 8 Jamming**
This chapter explains this typical PT-R problem and the solutions.
- Chapter 9 Technical Information**
This chapter gives technical information on the PT-R.

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Chapter 1








Ensuring Safety

This chapter gives information necessary for safe use of the PT-R.





1. Safety Rules

Please observe the following safety rules.

WARNING

-  The PT-R contains high voltage electrical circuits. Coming into contact with these circuits may result in severe injury and even death. Exercise sufficient caution so as to never touch these circuits.
-  Never allow water to enter the PT-R unit. This may result in electrical shock and damage the unit.
-  Do not operate the unit when there are gas vapors in the air that may ignite or explode.
-  The PT-R is equipped with interlocks to ensure operator safety. With the exception of times when maintenance personnel are performing maintenance procedures, do not disengage these interlocks. Operating the PT-R with the interlocks disengaged may result in serious personal injury.
-  The PT-R has been classified as a Class I Laser Product complying with 21 CFR Chapter 1 Subchapter J, and Class 1 Laser Product based on JIS C6802. Please refer to the list at the end of this manual to consult a Dainippon Screen office or agent regarding problems related to laser operation or regarding laser replacement.
-  Do not perform any adjustments or replacement by yourself of any part or internal structure that you may feel affects laser performance.
-  If any of the doors are opened during exposure, the interlocks will activate and automatically stop the rotation of the rollers, main drum, and feed section, as well as the movement of the transfer unit. However, approximately 4 seconds is required for the main drum to come to a complete stop. Do not under any circumstance touch the main drum until it has come to a complete stop.

 **CAUTION**

-  Before attaching the plate to the PT-R, verify that no paper or pieces of packaging remain on either side of the plate. The thermal laser may cause paper or packaging to ignite and start a fire in the PT-R.
-  The edges of the plate are very sharp. When handling the plate, be sure to use anti-slip protective gloves. If handled with bare hands, the edges of the plate may cause injury.
-  Store plates in a place where the height is appropriate for removal without hurting your back. Repeated strain to the back can lead to lower back pain.
-  Do not put your weight on the punch debris receptacle on the back of the PT-R. Doing so could lead to damage to the tray or an accident resulting from tripping.

CAUTION! Do not cover the PT-R with a cloth or block its air vents in any way.

NOTE Regarding the safety of the PT-R

- **Electrical safety**

The PT-R has been designed, tested, and evaluated in accordance with IEC950 of the “Safety of Information Technology Equipment, Including Electrical Business Equipment” electrical safety standards.

- **Laser safety**





The PT-R has been designed, tested, and evaluated in accordance with the following laser safety standards:

- “U.S. Federal Regulations 21 CFR 1040.10,” which accompany the rules of the “Center of Device and Radiological Health (CDRH)” of the U.S. Food and Drug Administration.
- “Safety of Laser Products” of IEC 60825.
“Equipment Classification”
“Requirement”
“User's Guide”

2. Precautions Regarding the Electrical System

2.1 Power Supply

WARNING



-  To avoid electrical shock accidents from the AC power supply, make sure that the unit is properly grounded in accordance with operation site regulations. Ground the PT-R separately.
-  A readily accessible disconnection device (building side power switch) must be installed in the fixed building wiring before installing the PT-R.
-  Have a qualified electrician select breakers and perform the electrical work.
-  Be sure to verify that both the PT-R and building side power switches are turned off before connecting the power cables of the PT-R to the switchboard.

CAUTION!

- To prevent current overload, install a current breaker at the power supply before connecting the PT-R to the power supply.
- Power cables are not provided in countries outside Japan. Please refer to Chapter 2 “6. Power Supply and Power Cables,” and obtain appropriately rated power cables that conform to the standards of your country or region.

2.2 Precautions Regarding the Handling of Power Cables and Hoses

WARNING

-  If you discover deformations, cracks, or cuts in the surface of a power cable or hose, immediately turn off the power switch, turn the building side power switches to OFF, and contact your nearest Dainippon Screen sales office or agent.
-  Do not step on or forcefully pull a power cable or hose.

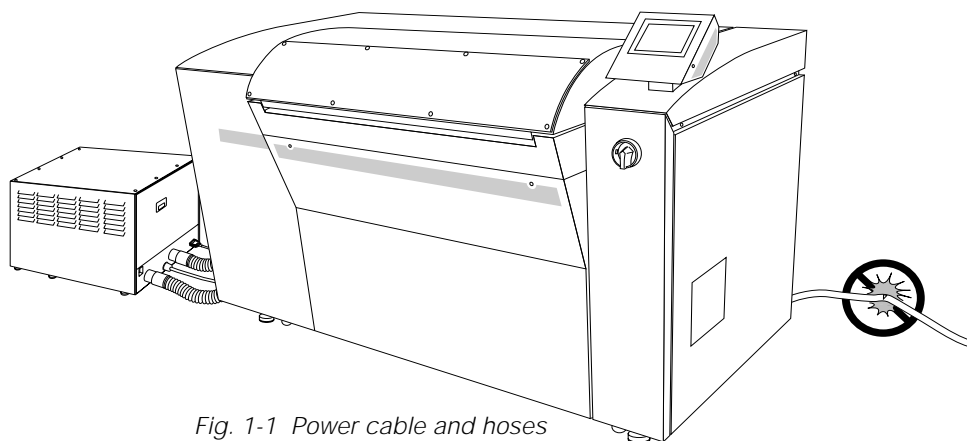


Fig. 1-1 Power cable and hoses

2.3 Performing an Emergency Stop

If trouble occurs during operation and you want to stop the PT-R immediately, press the forced drum stop switch.

When the forced drum stop switch is pressed, it takes approximately 4 seconds for the drum to stop rotating.

CAUTION!

Do not use this switch during normal operation. This switch is only to be used if the drum needs to be stopped in case of an emergency.

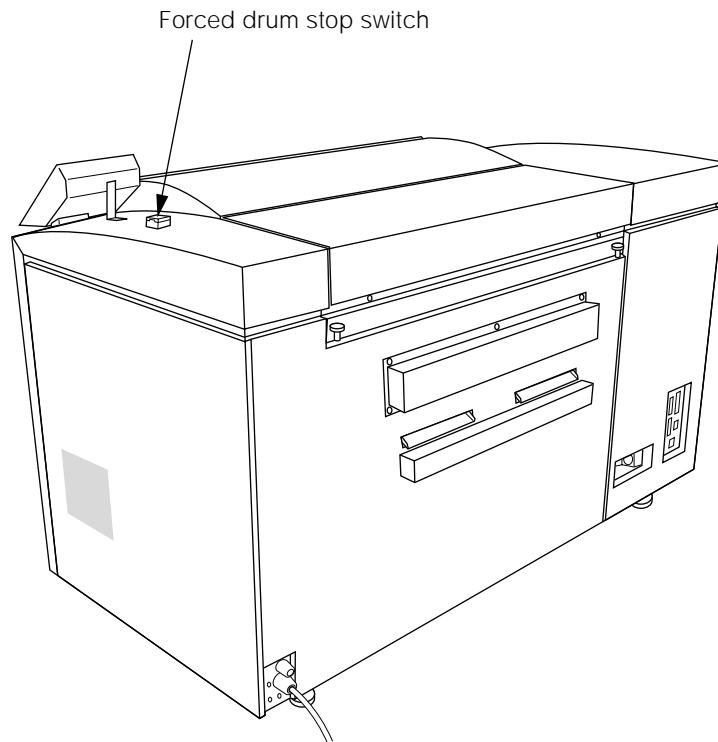


Fig. 1-2 Forced drum stop switch

WARNING

In order to prevent accidents, be sure to turn off both the PT-R and building side power switches after work or before performing maintenance or inspection procedures.

2.4 Handling Power Failures



WARNING

If a power failure in the external power supply occurs, turn off the PT-R and building side power switches in order to prevent accidents.

When the power is restored, turn on the building side power switch and turn the PT-R power switch ON again. For more details, refer to Chapter 4 “3. Turning the Power On and Off.”

3. General Precautions

! WARNING

-  Do not turn on the power switch of the PT-R or attempt operation until you have read this manual well and understand the contents.
-  The operator should wear appropriate clothing.

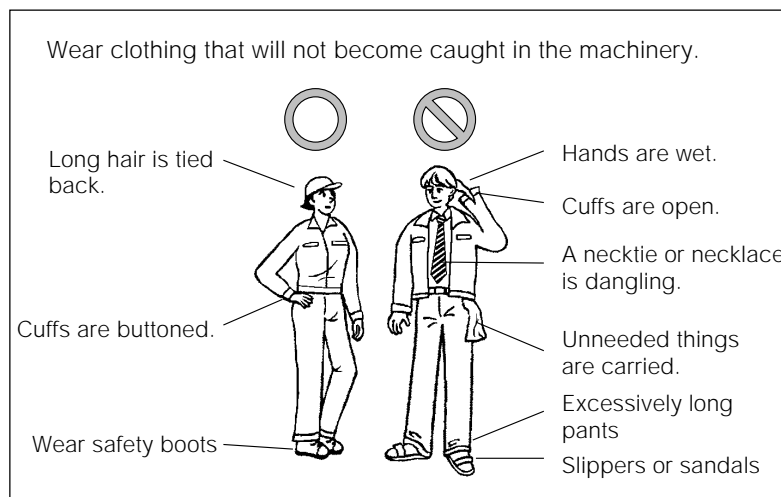







Fig. 1-3 Operator clothing

-  If you discover any abnormality or problem in the PT-R, contact your nearest Dainippon Screen office or agency to have appropriate measures taken.
-  Even in cases where the PT-R is capable of continuous operation, correct unattended operation is not guaranteed. A trained operator who is able to handle emergencies and initial safety measures must be present during operation in case an abnormal situation occurs. Our company offers courses on the proper handling of our products whenever needed. Please attend a course before attempting to operate the PT-R. Application for these courses can be made at any Dainippon Screen office or agency.
-  Do not attempt to operate the PT-R when you are not feeling well.

4. Maintenance

! WARNING

-  Only maintenance personnel who have received the specified training should perform maintenance work on the PT-R.
-  The operator should not under any circumstance turn on the building side and PT-R power switches when a maintenance technician is performing maintenance work.

5. Warning and Caution Labels

To ensure safety, the following warning and caution labels are attached to parts of the PT-R that are potentially dangerous to operators and maintenance personnel. Observe the following safety rules when operating or performing maintenance work on the PT-R.

WARNING

- Follow the instructions on all warning/caution labels.
- Do not erase or deface the instructions on a warning or caution label.
- Do not place objects in front of or cover a warning or caution label.
- If a warning or caution label has peeled off or is dirty, replace it with a new label. Failure to replace the label is extremely dangerous.

NOTE If you need a new warning or caution label, consult your nearest Dainippon Screen sales office or agent listed at the end of this manual.

Fig. 1-4, 1-5, 1-6 and 1-7 below shows which labels are attached to the PT-R and where they are attached. Always follow the instructions on the labels when operating the PT-R.

This label reminds you to remove the interleaf paper from both sides of the plate when you set the plate.

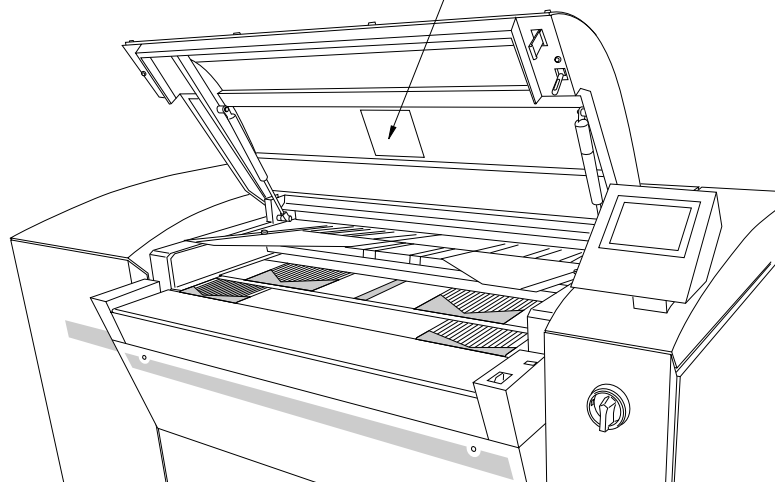
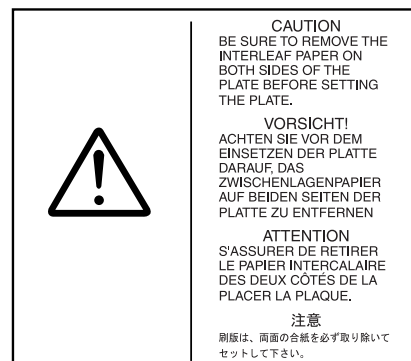
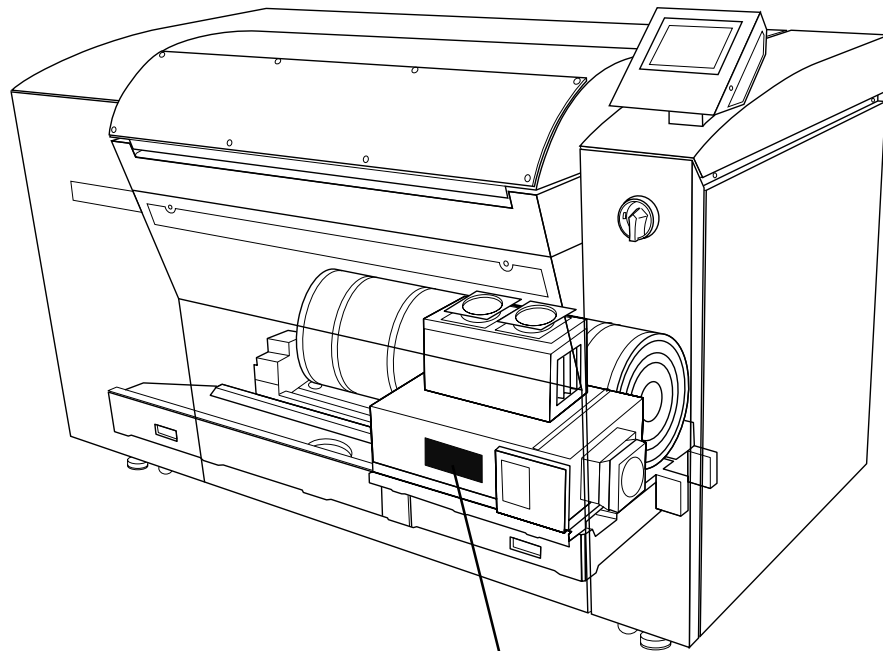


Fig. 1-4 Location of warning and caution labels (1)



Label indication that laser radiation exists inside

不可視レーザー光 ビームも拡散光も危険です 見たり触れたりしないこと 32W MAX CW 808nm クラス4 レーザ製品	INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION 32W MAX CW 808nm CLASS 4 LASER PRODUCT	UNSICHTBAREN LASER-STRAHLUNG BESTRAHLUNG VON AUGEN ODER HAUT DURCH DIREKTE ODER STREUSTRahlung VERMEIDEN! 32W MAX CW 808nm LASER KLASSE 4	RAYONNEMENT LASER NON VISIBLE EXPOSITION DANGEREUSE DE L'OEIL OU DE LA PEAU AU RAYONNEMENT DIRECT OU DIFFUS 32W MAX CW 808nm APPAREIL À LASER DE CLASSE 4
--	--	--	--

Label indicating the class, power, and wave length of the laser



Label indicating that laser radiation exists inside.

注意 ここを開き、セーフティ インターロックを解除すると 不可視レーザー光が放射す ビームも拡散光も危険です 見たり触れたりしないで 下さい	DANGER INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION.	VORSICHT! UNSICHTBARE LASERSTRAHLEN, WENN GEÖFFNET UND SICHERHEITSSCHALTER DEAKTIVIERT SIND. VERMEIDEN SIE DIREKTE ODER INDIREKTE BESTRAHLUNG VON AUGEN UND HAUT!	ATTENTION RAYONNEMENT LASER NON VISIBLE DANGEREUX EN CAS D'OUVERTURE ET LORSQUE LA SECURITE EST NEUTRALISEE. EVITER UN CONTACT DIRECT OU DIFFUS AVEC L'OEIL OU LA PEAU.
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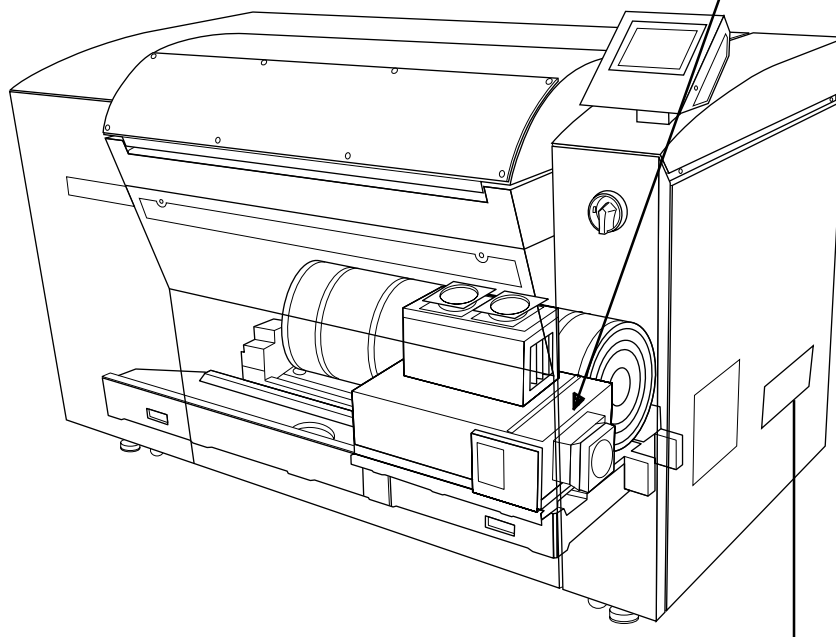
This label warns you that releasing an interlock while an operation door with this label attached is opened may expose you to dangerous invisible laser radiation.

Fig. 1-5 Location of warning and caution labels (2)

Label indicating that laser radiation exists inside.



Label indicating the existence of a laser aperture where the label is attached.



Label indicating high leakage current.



Label indicating that the product meets the requirements for CE marking.



Label indicating that the product complies with FCC rules.

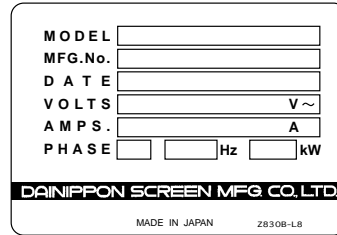
<p>This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.</p>	<p>この装置は、商工業地域で使用されるべき第一種情報装置です。住宅地域又はその隣接した地域で使用するとラジオ、テレビジョン受信機等に受信障害を与えることがあります。 VCCI-1</p>
<p>This Class A digital apparatus meets all requirements of the Canadian interference-Causing Equipment Regulations. Cet appareil numérique de la Classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. (T)</p>	

Fig. 1-6 Location of warning and caution labels (3)

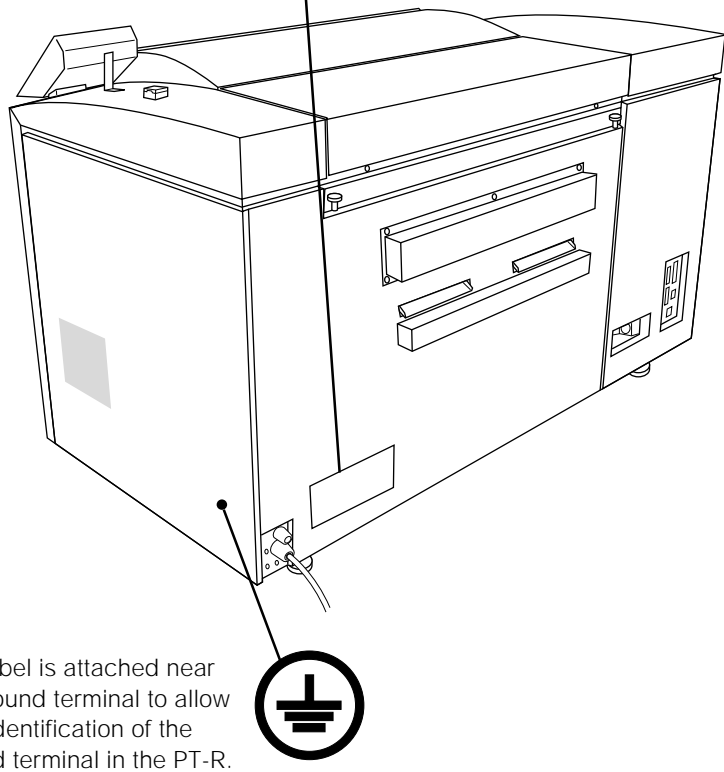
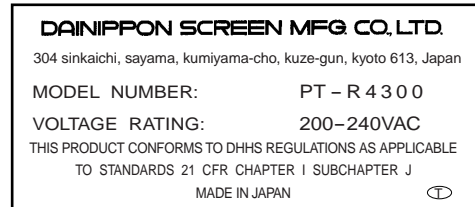
Label indicating that this is a Class 1 Laser Product



Label indicating the power specifications.



Label indicating that the product conforms to CDRH regulations.





This label is attached near the ground terminal to allow easy identification of the ground terminal in the PT-R.

Fig. 1-7 Location of warning and caution labels (4)

6. Interlock System

The PT-R is equipped with an interlock system to protect the operator. When any of the doors is opened, the interlock switch placed at the door activates and cuts off the laser light.

WARNING

-  **With the exception of times when maintenance personnel are performing maintenance procedures, do not disengage the interlocks. Operating the PT-R with the interlocks disengaged may result in serious personal injury.**
-  **If any of the doors are opened during exposure, the interlocks will activate and automatically stop the rotation of the rollers, main drum, and feed section, as well as the movement of the transfer unit. However, approximately 4 seconds is required for the main drum to come to a complete stop. Do not under any circumstance touch the main drum until it has come to a complete stop.**

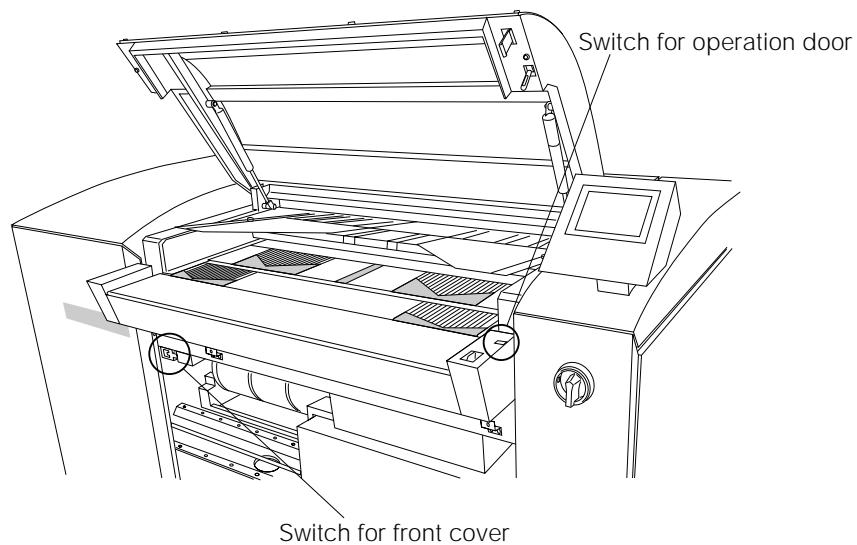


Fig. 1-8 Interlock switches (front)

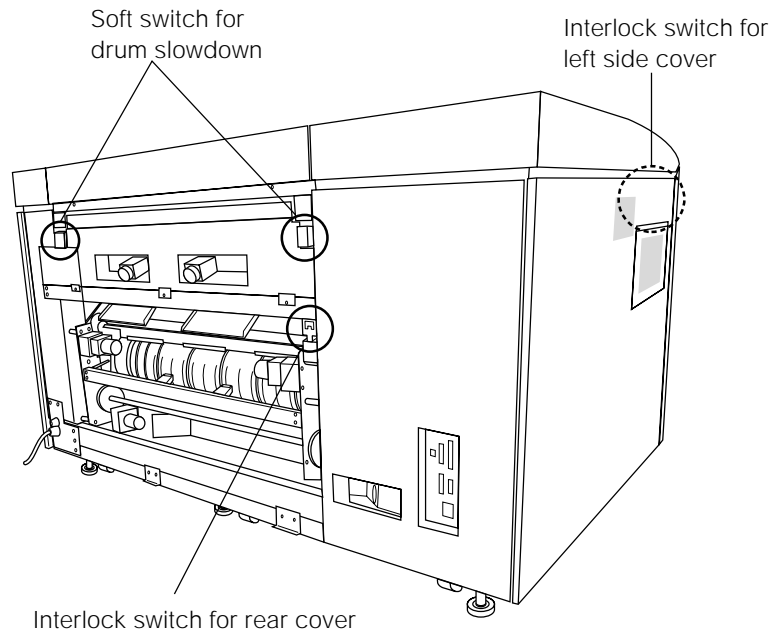


Fig. 1-9 Interlock switches (rear)

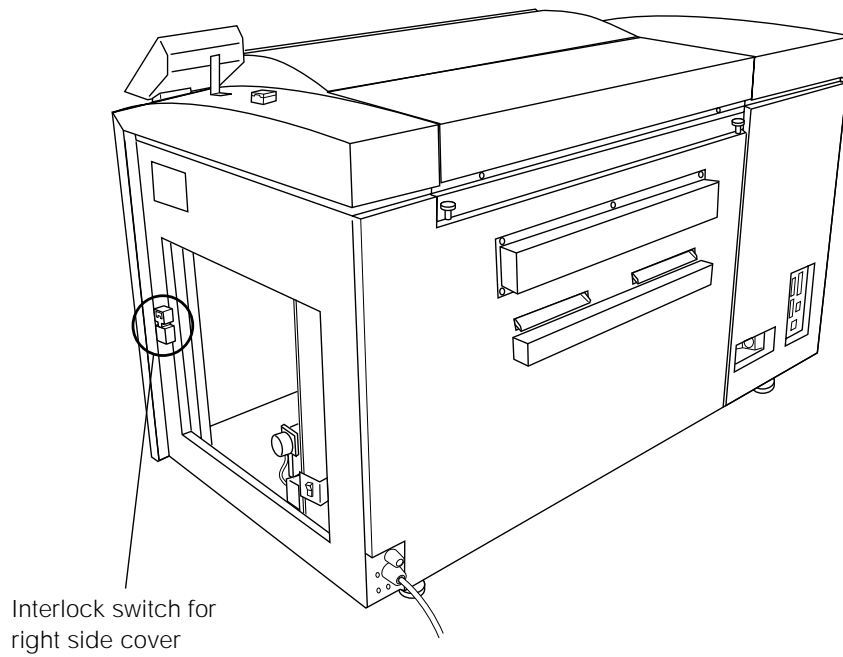


Fig. 1-10 Interlock switches (right side)

7. Disposal of the PT-R



When disassembling the PT-R there are dangerous parts such as the gas spring in the open/close part of the operation door. Because of the danger present when disassembling the PT-R no one other than a specialized engineer who was properly trained at Dainippon Screen should carry this out.

Handling plate and plate punch debris

Please acquire the services of a professional recycling company to take care of used plates and plate punch debris.

Lithium battery handling

A lithium battery is used in the control panel of the PT-R. Under normal use the lithium battery has a life of five to ten years. When it expires it should be disposed of carefully using special procedures for handling harmful substances. When disposing of the PT-R please contact the place of purchase or use the contact information at the end of this manual to request the services of specialized lithium battery removal and disposal personnel.

Disposal of replacement parts and the PT-R itself

When disposing replacement parts or the PT-R itself, please seek advice from the place of purchase or the contact information at the end of this manual, or request the services of a professional disposal company that specializes in recycling. If you have any questions regarding disposal, please consult the place of purchase or contact the Dainippon Screen sales office or agency listed at the end of this manual.

8. Environmental Protection

In March of 2001, Dainippon Screen and all its manufacturing facilities, including affiliate companies, acquired ISO14001 Environment Management System certification. Further to this, Dainippon Screen has and still continues to do its best for environmental preservation by promoting manufacturing practices that do not harm on the environment.

NOTE ISO14001 Environment Management System is an international standard designed to preserve the environment. It places emphasis on the initiative of corporations and organizations to take responsibility for and to actively engage in activities for this purpose. In addition to requiring that environmental regulations be observed and that the environmental impact of corporate activities be reduced, it continually evolves, in accordance with its unique environmental policy, through the formulation, execution, practical review, and amendment of goals. It efficiently promotes activities for environmental preservation by getting manufacturers actively involved in environmental issues and also by obtaining the cooperation of customers through information they provide.

The following are requirements regarding product use and disposal for environmental preservation. Please read thoroughly and faithfully observe the contents in the same manner as you would for safety related cautions.

Environmental regulations

Laws, enforcement ordinances, enforcement regulations and bylaws exist that are meant to protect the environment. Please consult your national, state/province or local government for more information about these and the punishments involved.

Handling of waste item(s) for disposal

Please use the services of a professional disposal company according to the following procedure.

1. Verify that the item(s) to be disposed of is included in the items approved (type of item, type of business, and conditions of authorization) by the national, state/province or local government for disposal by the company in question.
2. Conclude agreements for commission of authority to collect and transport, and commission of authority to dispose.
3. Consign the item(s) for disposal and, if necessary, submit a disposal report to your national, state/provincial or local government.
4. Obtain transport completion and disposal completion documents from the disposal company to verify that the disposal was properly completed.
5. Visit the disposal company and verify that the work was conducted properly according to contract.

Handling of dangerous and toxic waste

The following procedures are required, in addition to the usual handling procedure by disposal companies, for waste such as that which is explosive, poisonous, contagious, or otherwise potentially dangerous to human health or to the environment.

- Verify that the disposal company is properly certified by the national, state/provincial or local government to take responsibility for the handling of dangerous and toxic waste.
- Label the item for disposal to indicate what it is and to indicate that it is a dangerous and/or toxic waste. Making sure it will be distinguished from other waste, request the storage and processing services of the disposal company.
- Submit your official report for disposal of dangerous and toxic wastes by the required date to the applicable department of your national, state/provincial or local government.

Handling of valuable resources

Although materials that can be recycled such as plates (PS plates) do not classify as waste, they should be treated as industrial waste if they will be disposed of as garbage.

Chapter 2

Installing and Moving the PT-R

This chapter explains precautions for installing and moving the PT-R.

1. Installing and Moving the PT-R4300

Installation and moving of the PT-R must be performed by a Dainippon Screen appointed service company or service technician. Dainippon Screen bears absolutely no responsibility for any damage, breakdowns, or malfunctioning resulting from installation or moving by anyone other than a Dainippon Screen appointed service company or service technician, and Dainippon Screen extends no guarantees regarding safety in such a case. If you need to have the PT-R moved or installed, consult one of the Dainippon Screen offices or agency listed at the end of this manual.

2. Installation Location

Do not install the PT-R in any of the following locations, as safety problems, failures, and malfunctioning may result.

- Locations directly exposed to sunlight
- Locations where electrical interference (voltage fluctuations or noise) may occur
- Locations close to machines that emit strong magnetic fields.
- Locations subject to sudden changes of temperature
- Locations close to sources of heat
- Locations with high temperature or high humidity
- Locations subject to vibration
- Unstable locations where the floor is not level
- Locations with dust
- Location subject to condensation
- Locations where the PT-R might be exposed to chemical solutions, smoke, volatile gases, or corrosive gases.

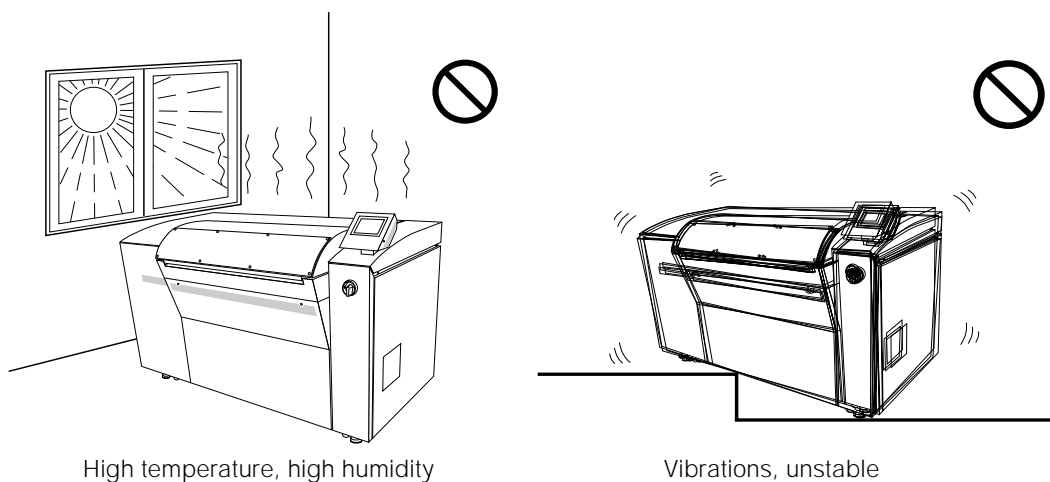


Fig. 2-1 Bad installation locations

3. Space Required for Installation

To allow escape in the event of danger and enable access for maintenance, leave at least 800 mm open around the periphery of the PT-R. Keep the floor free of obstacles and keep a path to the building side power switch clear.

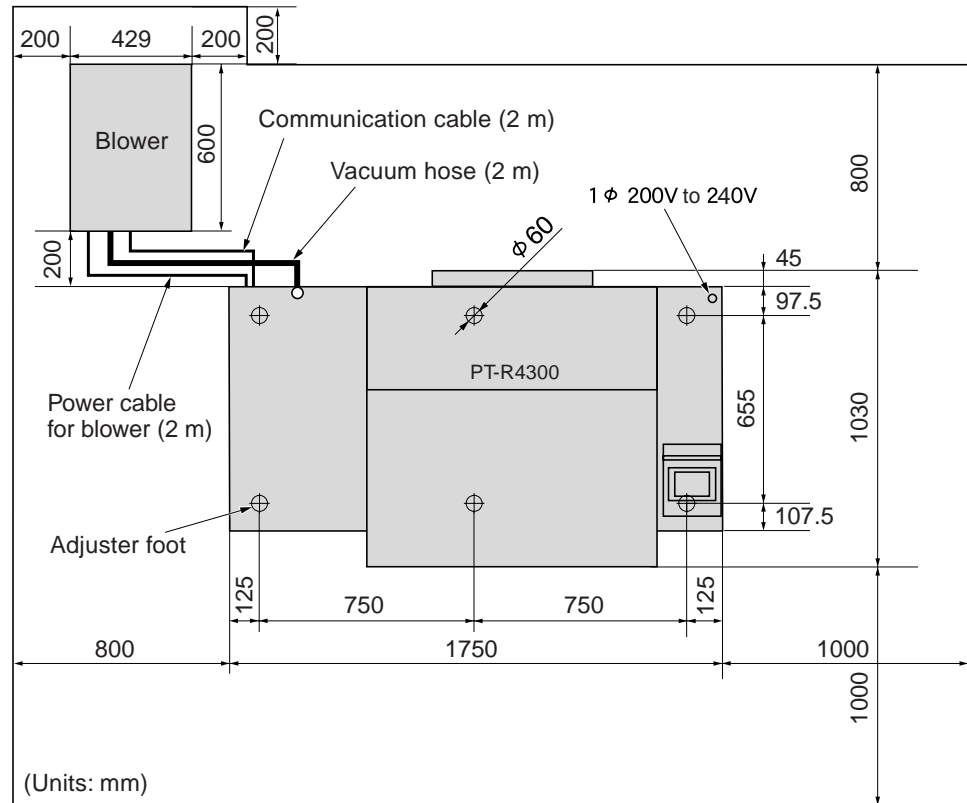


Fig. 2-2 Installation space

CAUTION!

- **Keep 200 mm open around the periphery of the blower to allow heat dissipation.**
- **A 2-meter vacuum hose is supplied with the PT-R. Do not use a hose different from the hose that is supplied hose, even if you require a hose of different length. Pressures losses caused by a different hose may adversely affect the operation of the blower and cause a malfunction.**

4. Load Tolerance of Building

The site of installation requires a floor load tolerance of at least 4010 N/m² (410 kgf/m²). To prevent the formation of cracks in the floor, it is recommended that the adjuster foot of the PT-R rest on the framework of the building; however, the load on the floor will vary depending on the strength of the floor, the position of the framework, the positioning of the PT-R, and the presence of other heavy objects in the same location. Consult with the designer of the building or other authority.

5. Ground Connections

- In order to prevent electrical shock accidents from the AC power supply, perform grounding connections for the machine only after making sure that the PT-R power switch and the building side power switch are both off.
- Since the leakage current of the PT-R is max. 3.5 mA, be sure to conduct grounding before connecting the power line of the PT-R 3-line cable.

Have a qualified electrician select the above items and perform the connections.

6. Power Supply and Power Cables

- Have electrical work performed by a qualified electrician.
- Make arrangements to obtain the power supply indicated in Chapter 9, “Technical Information.”
- PT-R power is supplied independently from the building side power switch, therefore do not connect other devices to that power switch.
- The allowed range of voltage fluctuation in 200 V-240 V power supply areas is +6%, -10%. If fluctuations in the power supply are greater than this, use a stabilizer.
- A power cable is not provided with products sold outside of Japan. For the PT-R, please obtain an 2.5 mm² × 3-wire power supply cable that complies with the standards of your country and is rated at 300 V AC or higher. If the cable described above does not comply to the standards of the country of installation, please refer to the power supply nameplate attached to the PT-R and provide a cable locally that does comply.

CAUTION!

A readily accessible disconnection device (building side power switch) must be installed in the fixed building wiring before installing the PT-R.

Chapter 3

Names of Each Part

This chapter gives an overview of the PT-R and explains its configuration.

1. The PT-R4300

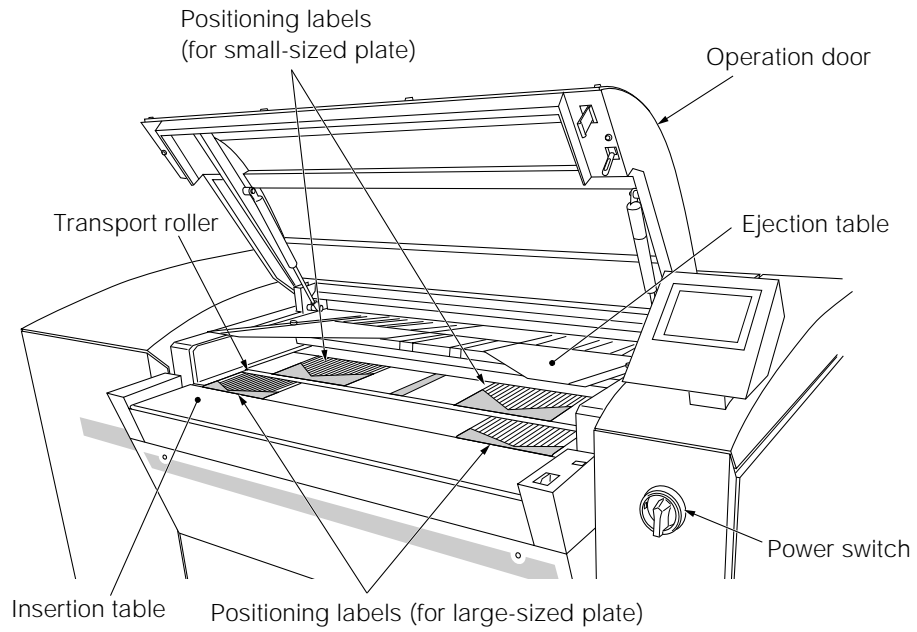


Fig. 3-1 Plate transport section

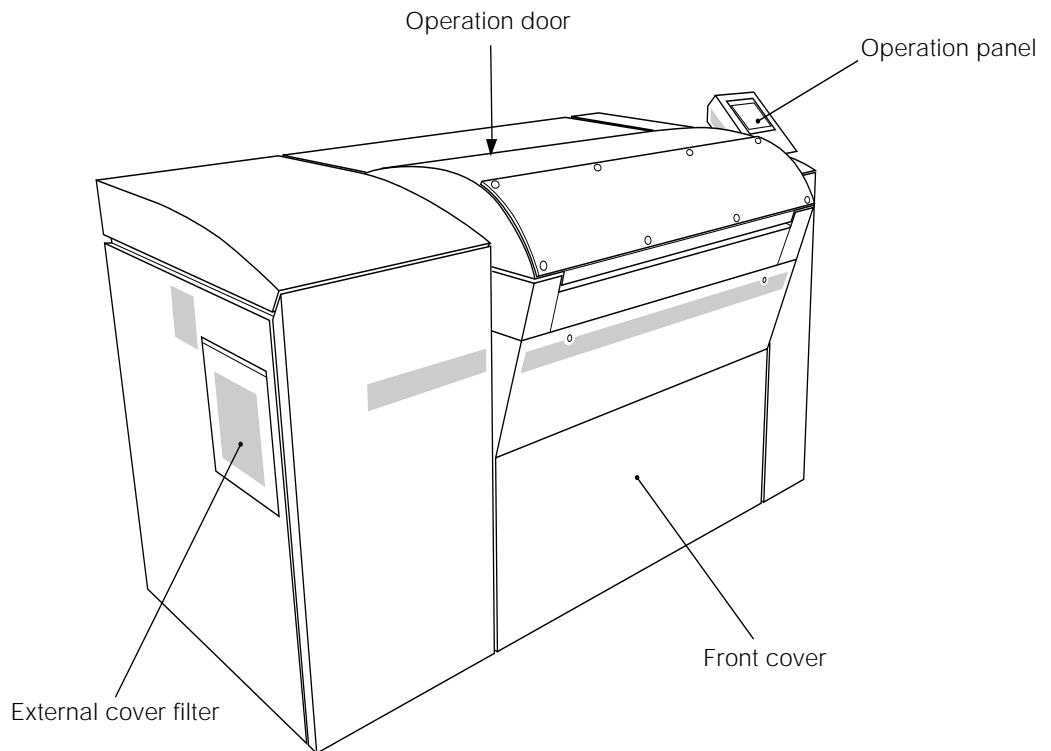


Fig. 3-2 Full view (front and left sides)

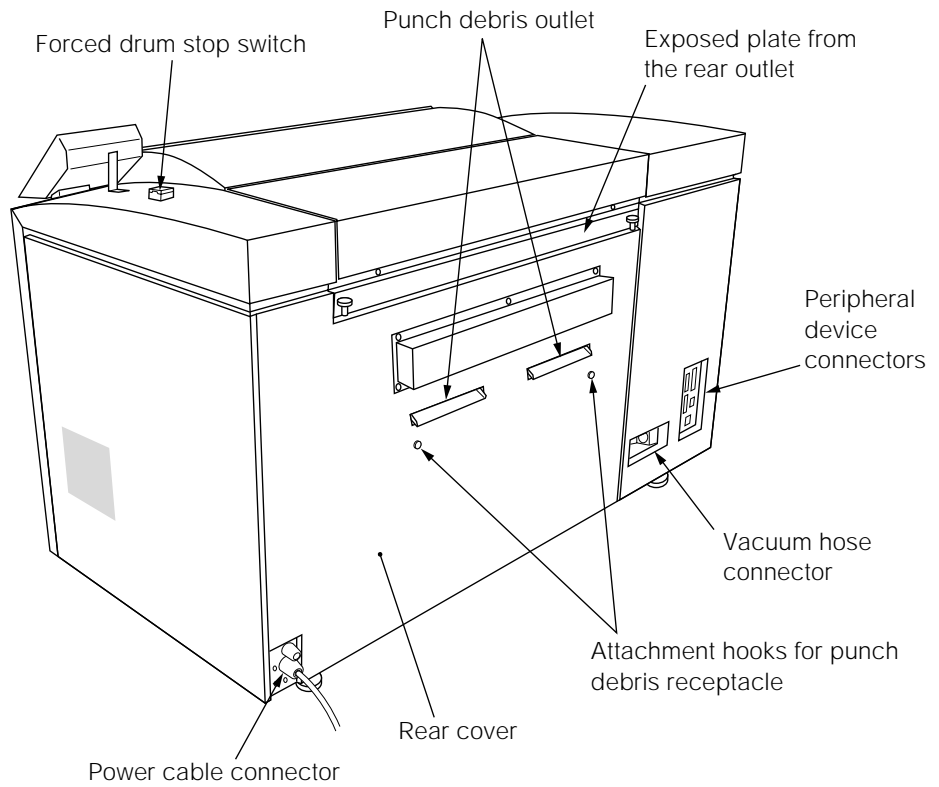


Fig. 3-3 Full view (rear and right sides)

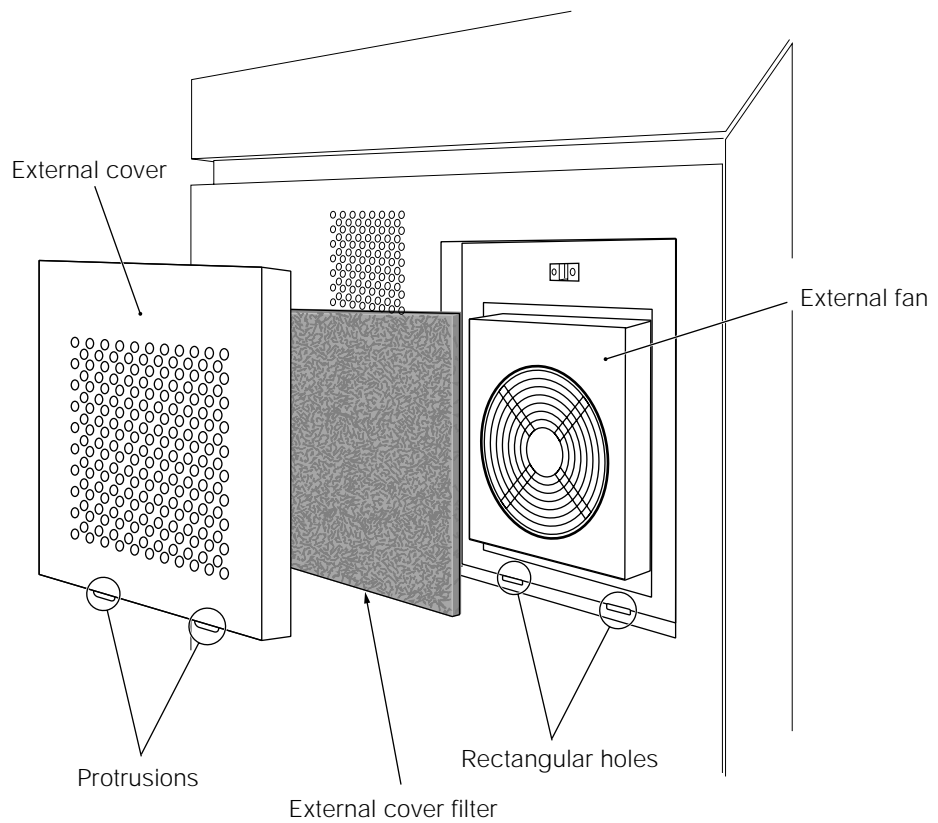


Fig. 3-4 External cover filter

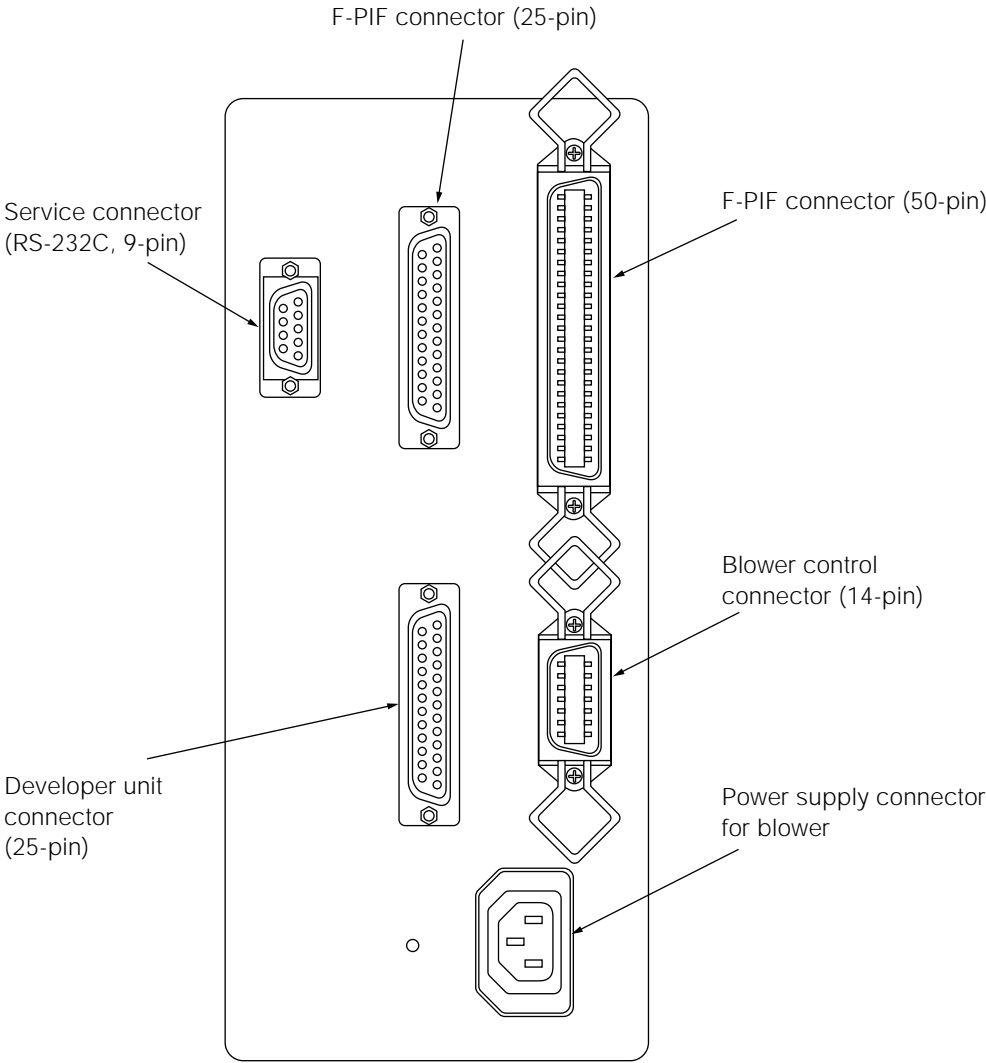


Fig. 3-5 Peripheral device connectors

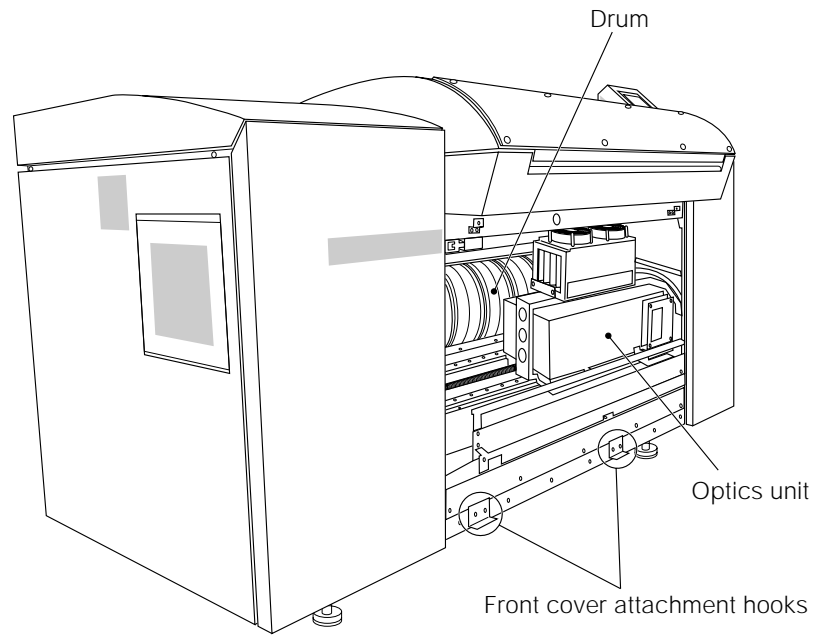


Fig. 3-6 Inside of front cover

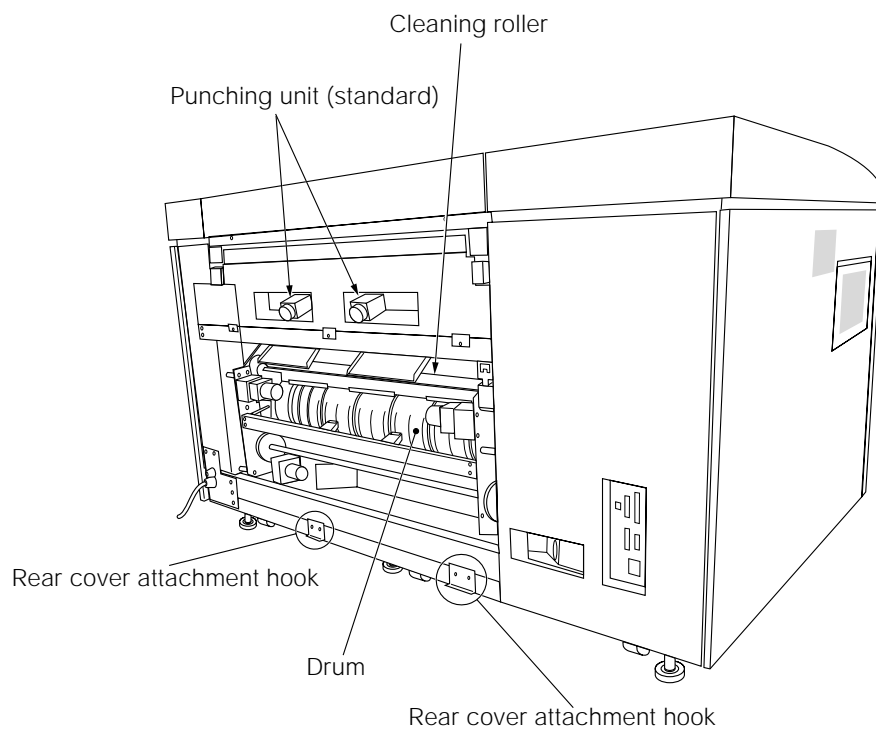


Fig. 3-7 Inside of rear cover

2. Accessories

The following accessories are provided with the PT-R.

2.1 Standard Accessories

Blower unit

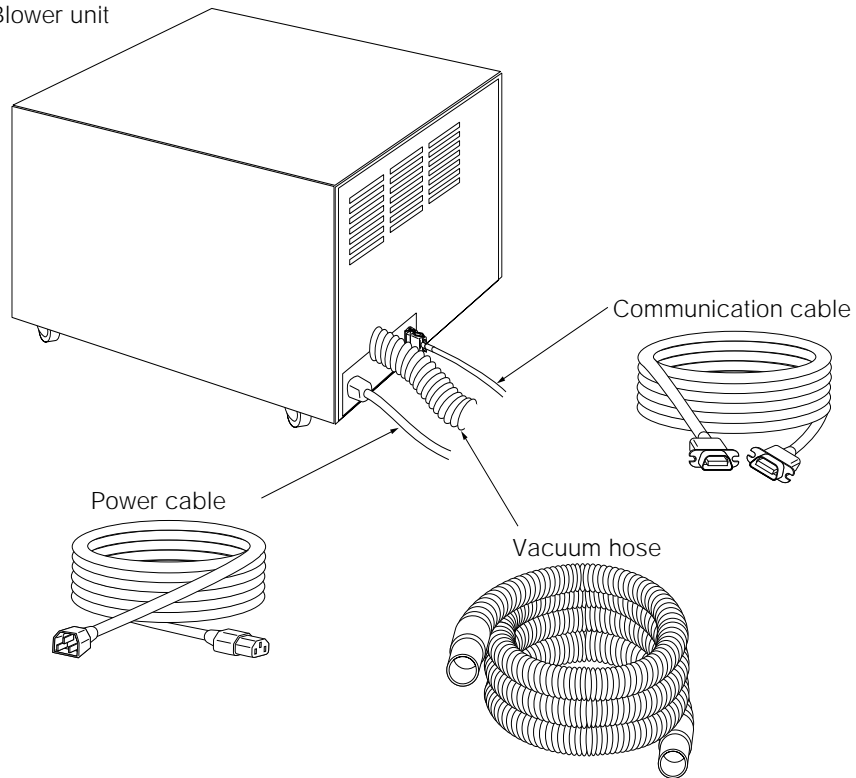
Blower unit

Vacuum hose (2 m)

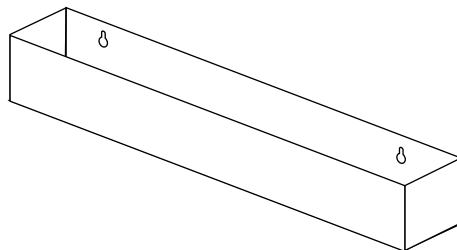
Communication cable (UL2464 AWG24 × 7P, 2 m)

Power cable (0.75 mm² × 3 wires 300V) for blower unit which plugs into PT-R (2 m)

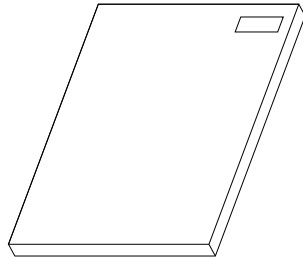
Blower unit



Punch debris receptacle



Users Manual



2.2 Optional Accessories

The following items are available as options. For more information or to place an order, contact one of the Dainippon Screen offices or agents listed at the end of this manual.

Punch unit (types: Dainippon Screen, Bacher, Protocol, Komori, others)

Cassette auto loader (single, multi)

Chapter 4

Basic Operation

This chapter explains the basic procedures for operating the PT-R.

1. Overview

The general procedure for operating the PT-R is explained here. For detailed operating procedures, refer to the appropriate section.

1. Verify that all doors and covers are closed. Turn on the power switch of the peripheral devices first, and then the power switch of the PT-R. For more details, refer to “3.1 Turning On the Power.” A memory check of the PT-R begins. When the memory check ends, the initial screen appears on the display.



Fig. 4-1 Initial screen

2. Press **[START]**. Initialization of the PT-R begins. When initialization ends, the online (Ready) screen appears.

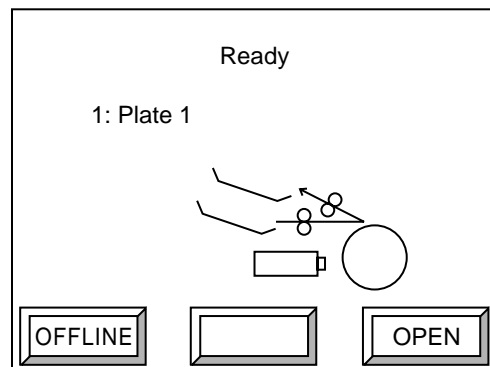


Fig. 4-2 Online (Ready) screen

3. Press **[OFFLINE]**. The display changes to the offline screen.

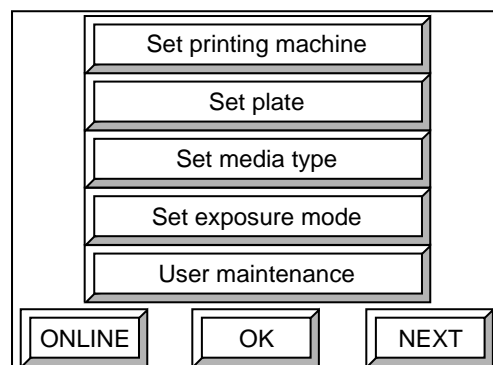


Fig. 4-3 Offline screen

4. Based on the plate to be used, set the proper parameters in “Printing machine information settings,” “Plate settings,” and “Media type settings.” For more details, refer to Chapter 5 “User Menu.”
5. Press **[ONLINE]** to return to the online screen.
6. Initiate output from the host computer.
The following screen appears on the operation panel of the PT-R and the buzzer beeps repeatedly.



Fig. 4-4 Plate set request screen

7. Press **[OK]**. The buzzer stops and the following screen appears.

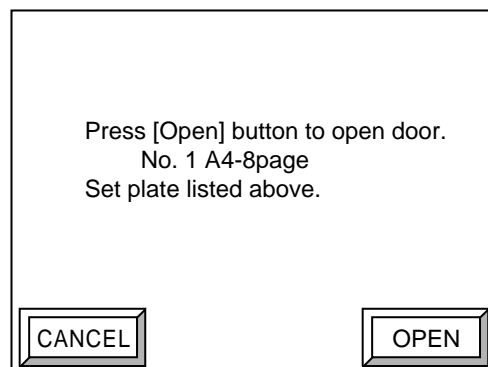


Fig. 4-5 Operation door open screen

8. Press **[OPEN]**. The lock is released and the operation door slightly opens, and set the specified plate. For more details, refer to “8. Online Mode.”
9. Close the operation door to start loading. When loading ends, exposure begins. When exposure ends, the plate is ejected to the ejection table and the operation door opens.
10. Transfer the ejected plate to the online processor.
11. When you are finished, turn off the power switch of the PT-R first, and then the power switch of the peripheral devices. For more details, refer to “3.2 Turning Off the Power.”

2. Connecting the Cables

Verify that all power to the system and host computer is off, and then make sure that the cables are connected correctly. The following diagram shows the cables connected to the PT-R and where they are connected. The cables to be connected are the two PIF cables. (The power cable and communication cable for blower control were connected during installation.) The PIF cable connects the PT-R to the host computer.

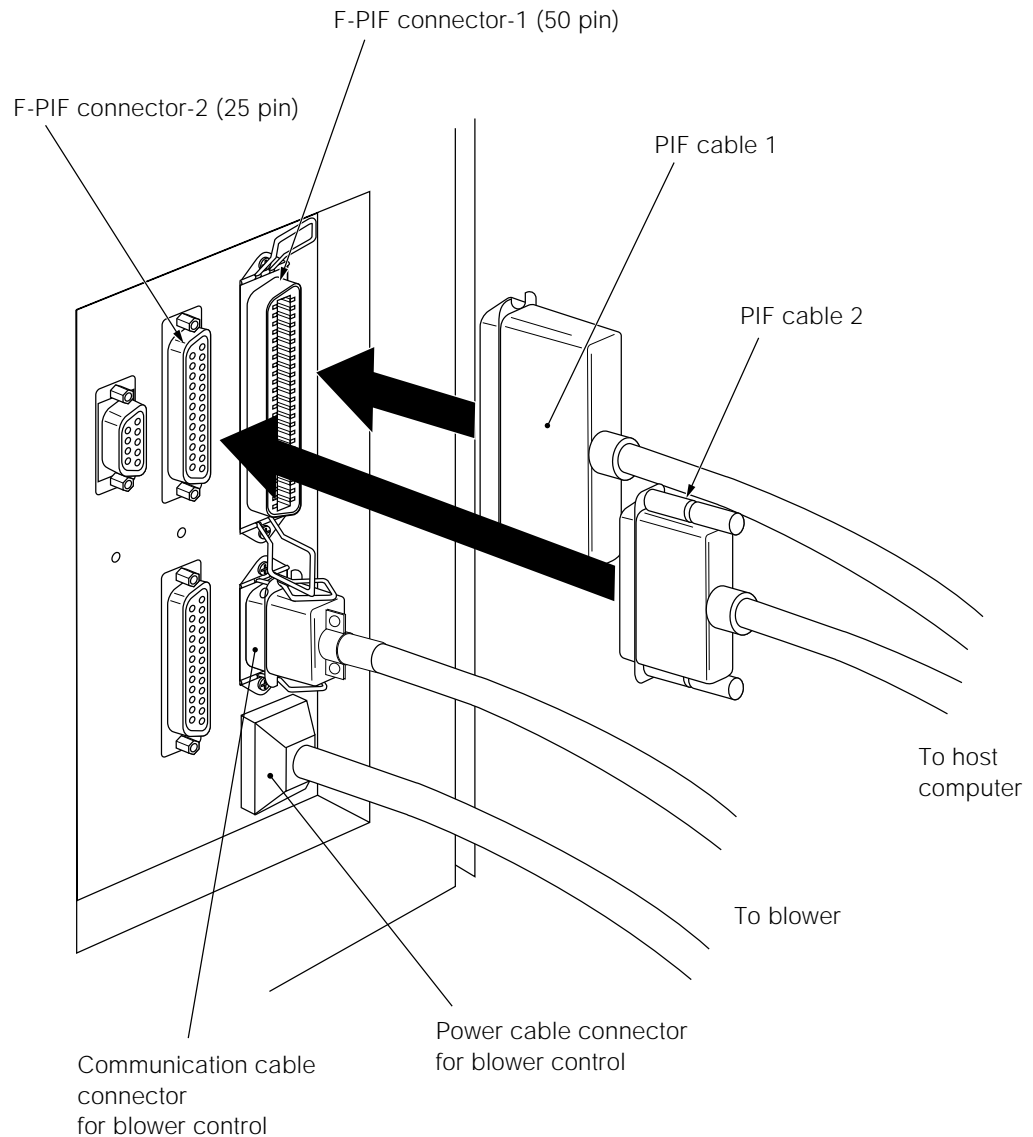


Fig. 4-6 Cable connectors