



VarioPrint 6000 line

Maintenance guide

VarioPrint 6180, 6220, 6270, 6330



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Chapter 1

Introduction

Notes for the reader

Typography

This manual uses the following typography to indicate elements that are part of the user interface.

Typography	Indicates
[Text between square brackets]	Name of a button, tile, setting, value, or other option of the user interface
<Text between angle brackets>	- Name of a key on a keyboard - Name of a variable: item that varies according to the context
Text displayed in courier font	- File path - Command Prompt comment
[Text] →[displayed in] →[menucascade]	Names of options to be used in a fixed order

Safety symbols

Before you use this product, make sure you read and understand the safety information that belongs to the product. Find the safety information on "<http://downloads.cpp.canon>". Also be sure to follow all warnings and instructions marked on the product.

This manual uses the following safety symbols to indicate hazards and precautions.

Symbol	Type of symbol	Indicates
	WARNING	Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. To use the machine safely, always pay attention to these warnings.
	CAUTION	Indicates a caution concerning operations that may lead to injury to persons if not performed correctly. To use the machine safely, always pay attention to these cautions. This indication can concern hazards that have a specific CAUTION symbol. The 'hot surface', 'electric shock', 'moving parts' and 'laser beam' cautions are listed below.
	CAUTION	Hot surface Indicates a caution concerning operations that may lead to injury to persons if not performed correctly. To use the machine safely, always pay attention to these cautions.
	CAUTION	Electric shock Indicates a caution concerning operations that may lead to injury to persons if not performed correctly. To use the machine safely, always pay attention to these cautions.
	CAUTION	Moving parts Indicates a caution concerning operations that may lead to injury to persons if not performed correctly. To use the machine safely, always pay attention to these cautions.

Symbol	Type of symbol	Indicates
	CAUTION	Laser beam Indicates a caution concerning operations that may lead to injury to persons if not performed correctly. To use the machine safely, always pay attention to these cautions.
	IMPORTANT	Indicates an operational requirement or restriction. Read these items carefully in order to prevent damage to equipment, software, data, media, or property.
	NOTE	Indicates a clarification of an operation or contains additional explanations for a procedure. Reading these notes is highly recommended.

Body protection symbols

This manual uses the following body protection symbols to indicate that it is important to protect yourself before performing a specific task or action.

Symbol	Type of symbol	Indicates
	IMPORTANT	Hand protection Wear the mentioned type of gloves when you perform this task or action.
	IMPORTANT	Eye protection Use the mentioned type of eye protection when you perform this task or action.
	IMPORTANT	Body protection Wear the mentioned type of body protection when you perform this task or action.
	IMPORTANT	Foot protection Wear the mentioned type of safety footwear when you perform this task or action.

Available documentation

Introduction

This machine is delivered with the following items:

- A 'Documentation and Driver Notice'
- A 'Safety Information Sheet'.

Main Content of the User Manuals



NOTE

Please check downloads.cpp.canon for the latest version of the documentation.

The following table provides an overview of the main content of the user manuals.

User Manual	Main content
User Manual	• Overview of the main system components • Work with the control panel • Handle and manage the jobs on the control panel • Optional finishers and other devices • Add media, toner and staples
Maintenance tasks	• Replacing parts • Cleaning parts • Solve a paper jam in the engine module
Extended key operator maintenance guide	• TTF maintenance • OPC maintenance • Registration adjustment • Optional light-weight media module
Safety Information	• Instructions for Safe Use

Introduction to the maintenance tasks

Introduction

This manual is intended for trained and certified operators who received the special maintenance training for the printer. Therefore, this manual is only intended as a reference guide for the described maintenance procedures.

On the control panel, you must always press [Next] to continue with the next step, or [Finish] to complete a maintenance task. After you finished a maintenance task, the control panel will also ask you to restart the system. The procedures in this manual only describe the physical maintenance actions.



NOTE

In this manual and on the control panel, the trained and certified operator is referred to as the **key operator**.



NOTE

Only a key operator is allowed to perform the maintenance tasks that are described in this manual. You need to have access rights to perform maintenance tasks. A maintenance session can involve more than 1 maintenance task. A maintenance session ends when you leave the maintenance screen that displays the maintenance tasks.



CAUTION

The key operator executes the maintenance tasks inside the machine. The key operator must be aware of the risks of working inside the machine. The key operator must be trained to execute the described maintenance actions before the key operator can execute these actions.



CAUTION

When you do not follow the procedures as described, there is a risk of electrical shock.



CAUTION

When you do not follow the procedures as described, there is a risk of injury because of moving parts.

The maintenance levels

The machine is a high-volume production printer. Therefore, a short downtime due to required maintenance is very important to you. To help you reduce the downtime, 2 levels of maintenance tasks which key operators can carry out are defined. The following table gives an overview of the maintenance levels and the respective maintenance tasks.

Overview of the maintenance tasks

Maintenance level	Maintenance task	Where to find more information
1	Replace the cleaners	Replace the cleaners on page 14
	Lock the clean units	• Lock the clean unit (left) on page 36 • Lock the clean unit (right) on page 38

Maintenance level	Maintenance task	Where to find more information
2	Solve paper jams in hot areas of the printer	Remove sheets from the process modules on page 42
	Clean the OPC belts	• Clean the OPC belt (left) on page 63) • Clean the OPC belt (right) on page 70)
	Clean the glue cleaning rollers	Clean the glue cleaning rollers on page 77

Optional light-weight media module

To print light-weight media the optional light-weight media module must be installed. The maintenance actions for the light-weight media module are:

- Check the filter: [Check the filter on page 98](#)
- Replace the filter: [Replace the filter on page 99.](#)
- Remove the air guidance unit to access the TTF: [Remove the air guidance unit on page 101.](#)
- Install the air guidance unit: [Install the air guidance unit on page 103.](#)

Begin maintenance

The maintenance section of the [System] view shows the required or suggested maintenance tasks. Here, you can only view the maintenance tasks.

The screenshot displays the printer's maintenance interface. The top status bar indicates 'Ready'. The left sidebar shows navigation options: Printer, Maintenance (active), Setup, and Media. The main content area is split into two panels. The left panel, titled 'Counters', shows usage statistics for Billing, Day, and Toner. The right panel, titled 'Maintenance', features a 'Start maintenance' button with a wrench icon. The bottom navigation bar includes tabs for Schedule, Jobs, Trays, and System (the active tab).

[1] Begin maintenance

When you press the [Go to maintenance tasks] button, the actual maintenance screen appears.

The maintenance screen

After you press the [Go to maintenance tasks] button in the [System] view, the maintenance screen appears. The maintenance screen shows the required and suggested maintenance tasks. A red icon indicates required tasks. An orange icon indicates suggested tasks. These tasks may be required soon. You can select a maintenance task from the list and press [Start] to start the maintenance wizard.

Determine the required maintenance

Introduction

The operator panel indicates that maintenance is required, and when maintenance is required. The operator panel also leads you through all the steps of each maintenance task. This section describes how the operator panel indicates that the machine requires maintenance.

Replace the cleaners

The sheet cleaners and the spiral cleaners are consumables. The cleaners have counters. If maintenance is required immediately or soon, the color of the maintenance icon changes.

The [Maintenance] section of the [System] view on the operator panel indicates that you can or must replace the cleaners. There, the counter information is regularly updated.

The following table describes what you must do when the maintenance icon is blue, orange or red.

When to replace the cleaners

Maintenance icon	Description
	The maintenance icon is blue. Maintenance is currently not required.
	The maintenance icon is orange. The machine can print another 20,000 images before you must replace the cleaners. Your service technician can change this to another number within the range of 10,000 and 50,000.
	The maintenance icon is red. The counter is 0. The machine stops. You must replace the cleaners. Only then, the machine can continue printing.

Solve a paper jam in hot areas of the machine

When a paper jam occurs in the hot areas of the machine, the procedure is as follows.

- The machine stops.
- The operator panel displays the maintenance screen with this maintenance task.
- Select the maintenance task and press [Start].
- If applicable, enter the maintenance PIN.
- Follow the instructions on the operator panel to solve the paper jam.

Chapter 2

Maintenance tasks - Level 1

Replace the cleaners

Open the doors and covers

Introduction

This procedure is only intended for key operators who received the special maintenance training.

When to do

If the maintenance icon in the dashboard indicates that maintenance is required soon or immediately.

Before you begin

Make sure that you have 2 new spiral cleaners and 2 new sheet cleaners at hand.

Service key (supplied with the machine)

Socket wrench 10 (supplied with the machine)

Heat-resistant gloves (supplied with the machine)

Adhesive tape (supplied with the machine)



CAUTION

Certain parts of the machine may be hot. Therefore, always use the special heat- and oil-resistant fuser gloves.

Procedure

1. Select the maintenance task from the list of the required and suggested maintenance tasks.
[System] view -> maintenance section -> press the [Go to maintenance tasks] button.
2. Press [Start] to start the maintenance wizard.
At the start of the procedure, the machine is turned off.

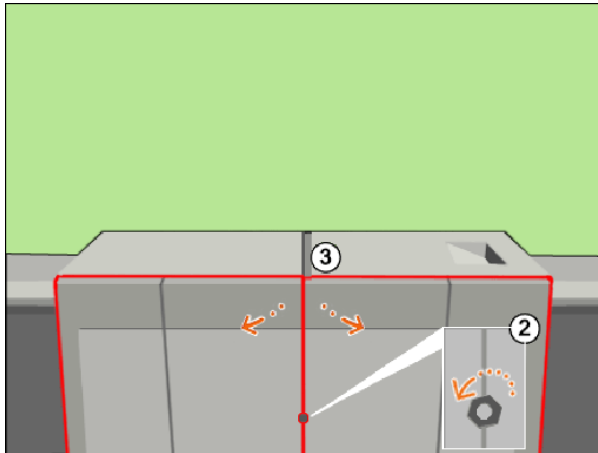


CAUTION

Wait until the machine is turned off. Opening the doors too soon can possibly cause injury.

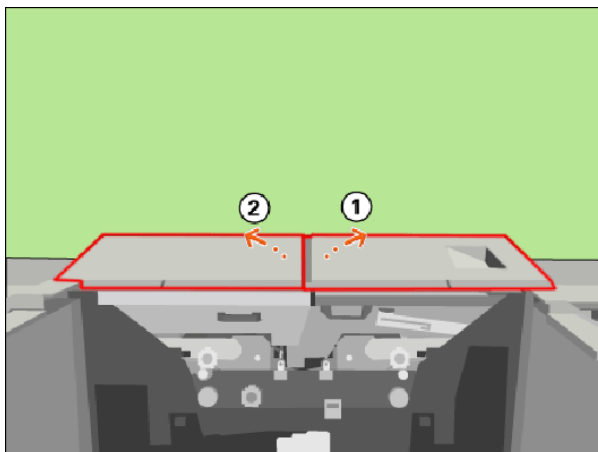
3. Use socket wrench 10 to loosen the bolt of the front doors (2).

4. Open the lower door. Open the front doors (3).



[2] Open the front doors

5. Lift the right-hand top cover to the upper position (1).
6. Lift the left-hand top cover to the upper position (2).



[3] Lift the top covers

**CAUTION**

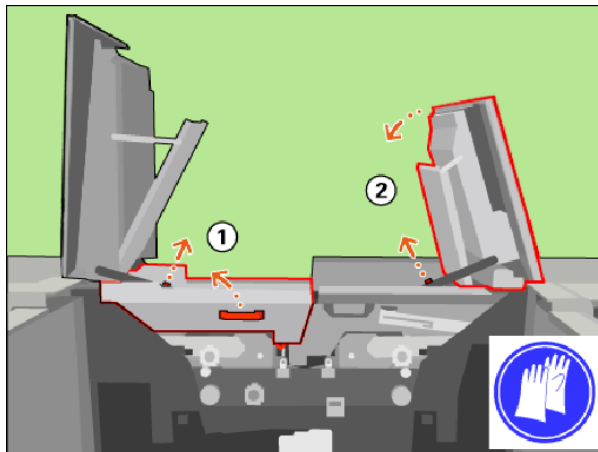
Hot area. Use heat-resistant gloves.

**CAUTION**

Make sure that the left-hand inner cover is locked in the upper position.

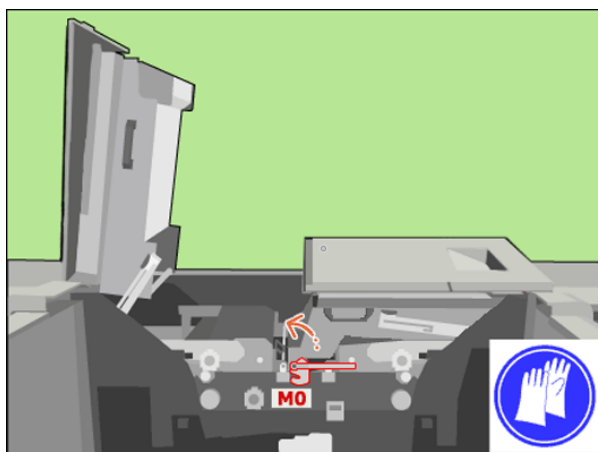
7. Unlock the left-hand upper cover and lift the left-hand inner cover to the upper position (1).

8. Unlock and **lower** the right-hand top cover (2).



[4] Lift the left-hand inner cover

9. Only when the M0 lock is present, turn the M0 lock with the service key counter-clockwise to unlock the inner right-hand cover.



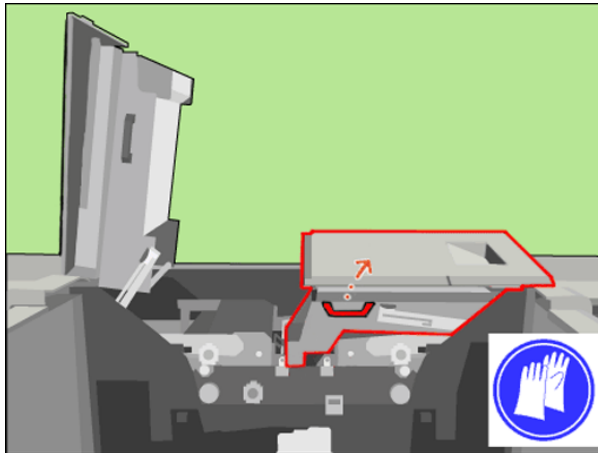
[5] When the M0 lock is present, unlock the inner right-hand cover



CAUTION

Make sure that the right-hand inner cover is locked in the upper position.

10. Lift the right-hand inner cover to the upper position.



[6] Lift the right-hand inner cover

Unlock the clean units

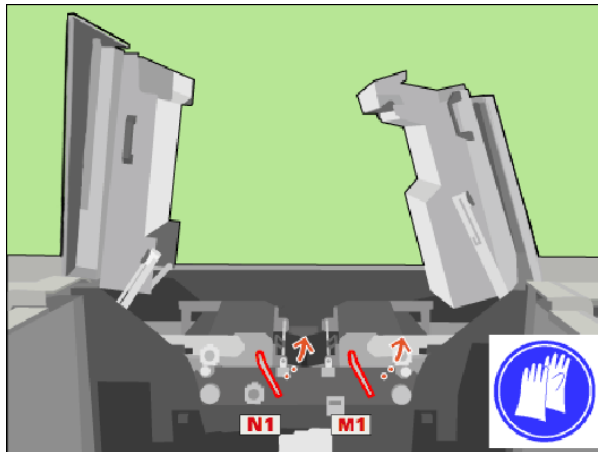
Procedure



CAUTION

Hot area. Use heat-resistant gloves.

1. Use the service key to turn N1 counter-clockwise.
2. Use the service key to turn M1 counter-clockwise.



[7] Unlock the clean units

Lift the clean units

Procedure

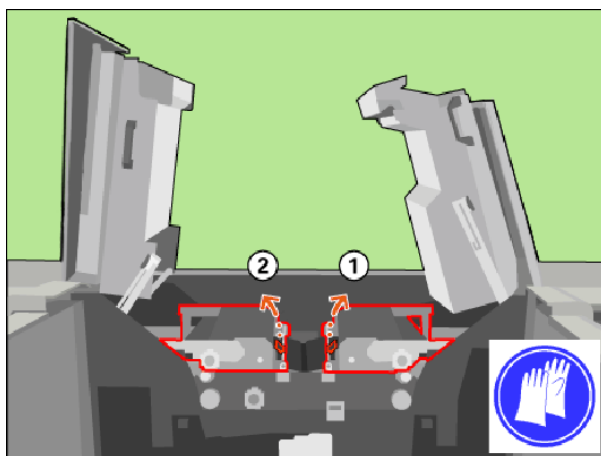
**CAUTION**

Hot area. Use heat-resistant gloves.

**CAUTION**

Make sure that both clean units are locked in the upper position.

1. Use the red handle to lift the right-hand clean unit (1) to the upper position.
2. Use the red handle to lift the left-hand clean unit (2) to the upper position.



[8] Lift the clean units

Remove the sheet cleaners

Procedure



CAUTION

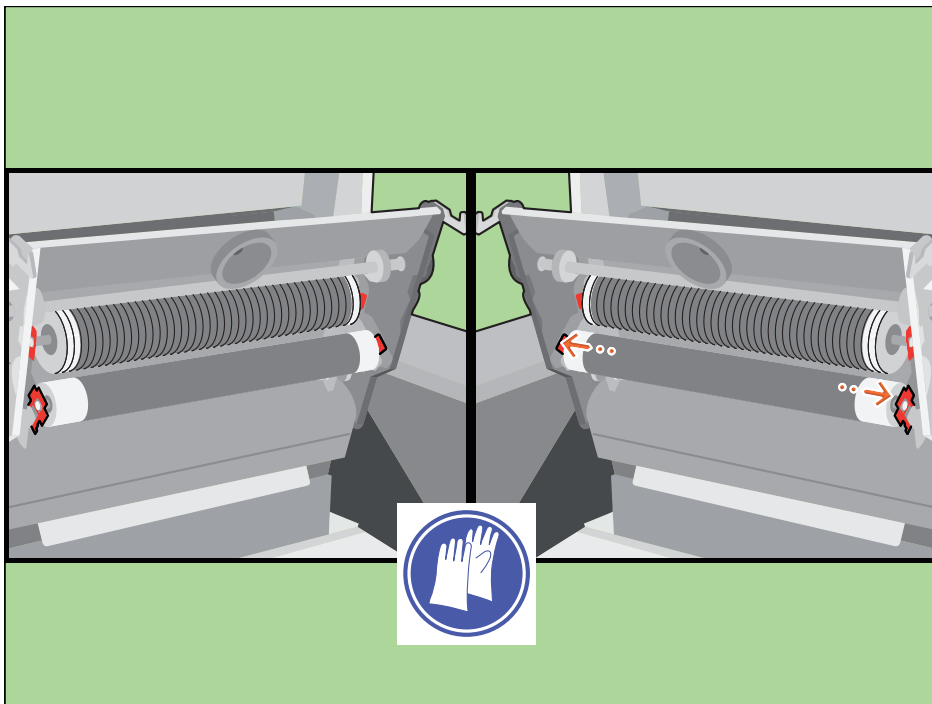
Hot area. Use heat-resistant gloves.



IMPORTANT

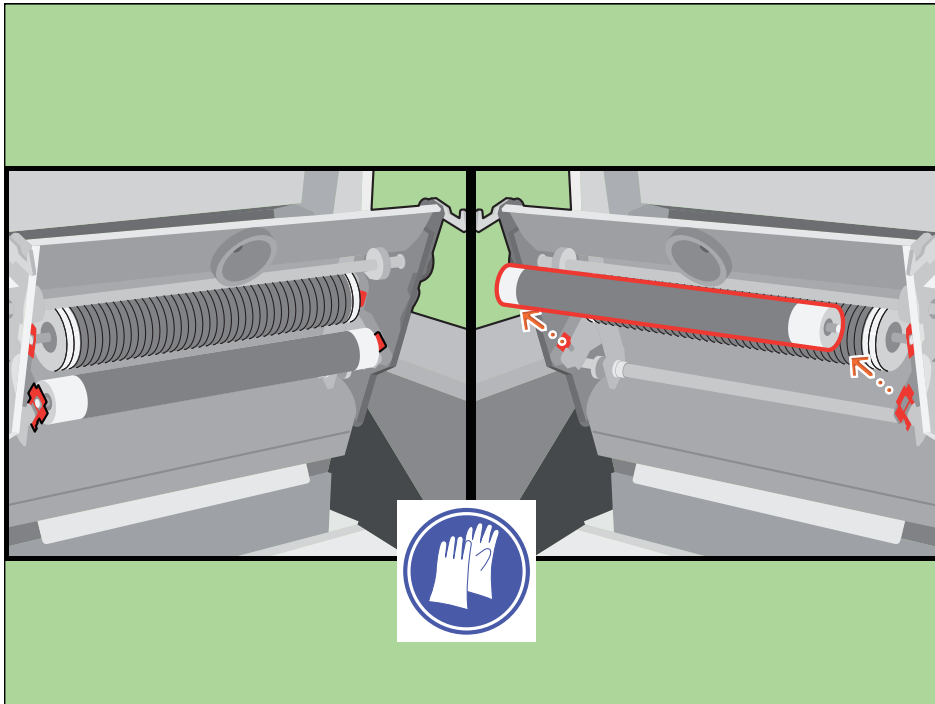
Do not remove a layer of the sheet cleaner when the cleaner is inside the machine.

1. Press both red leaf springs at the end of the right-hand sheet cleaner outwards.



[9] Press the red leaf springs outwards

2. Remove the sheet cleaner.



[10] Remove the sheet cleaners

3. Repeat the steps 1 and 2 for the left-hand sheet cleaner.

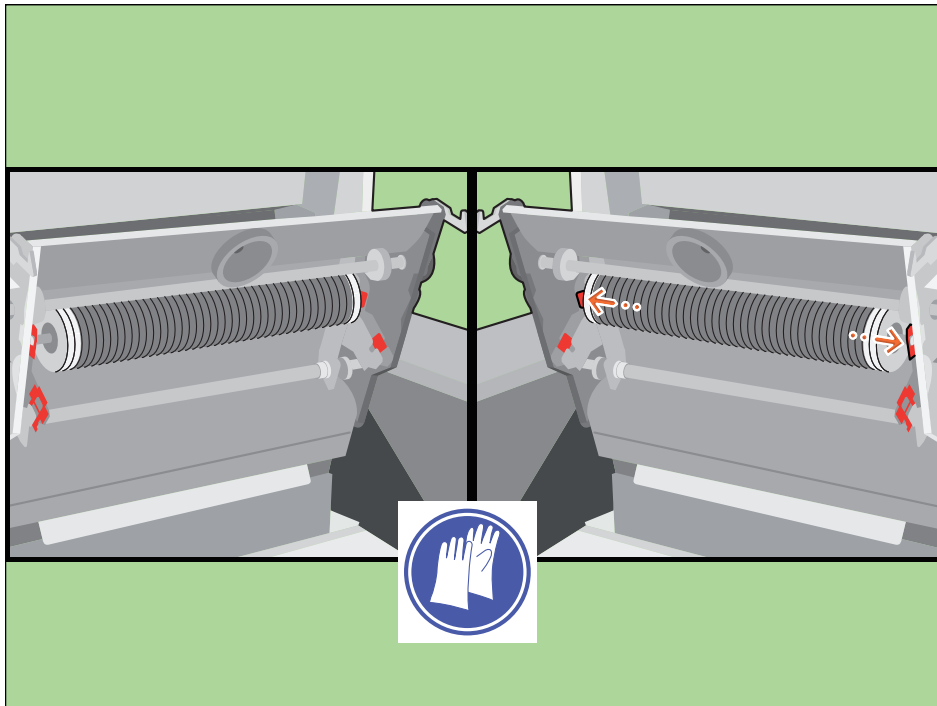
Remove the spiral cleaners

Procedure



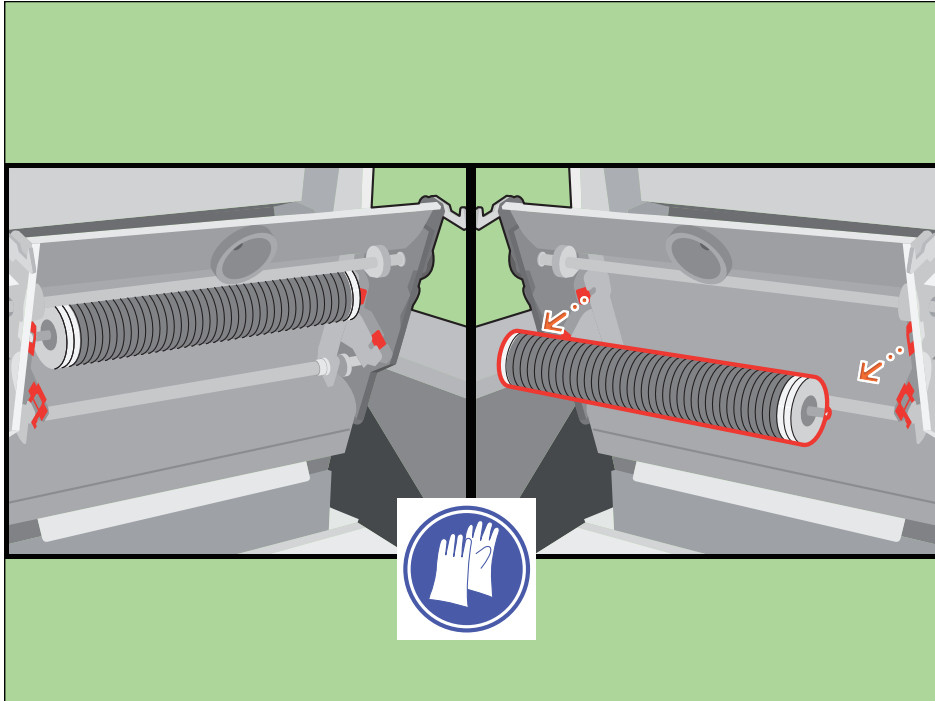
CAUTION
Hot area. Use heat-resistant gloves.

1. Press both red leaf springs at the end of the right-hand spiral cleaner outwards.



[11] Press the red leaf springs outwards

2. Remove the spiral cleaner.



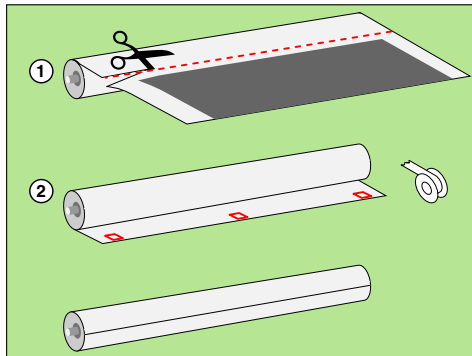
[12] Remove the spiral cleaners

3. Repeat the steps 1 and 2 for the left-hand spiral cleaner.

Recondition the sheet cleaners

Procedure

1. Remove 1 layer and an extra 2-3 cm (about 1 inch) of both sheet cleaners, including the old adhesive strip (1).
2. Use heat-resistant adhesive tape at 3 places to stick the end of the layer to the sheet cleaner (2).



[13] Recondition the sheet cleaners



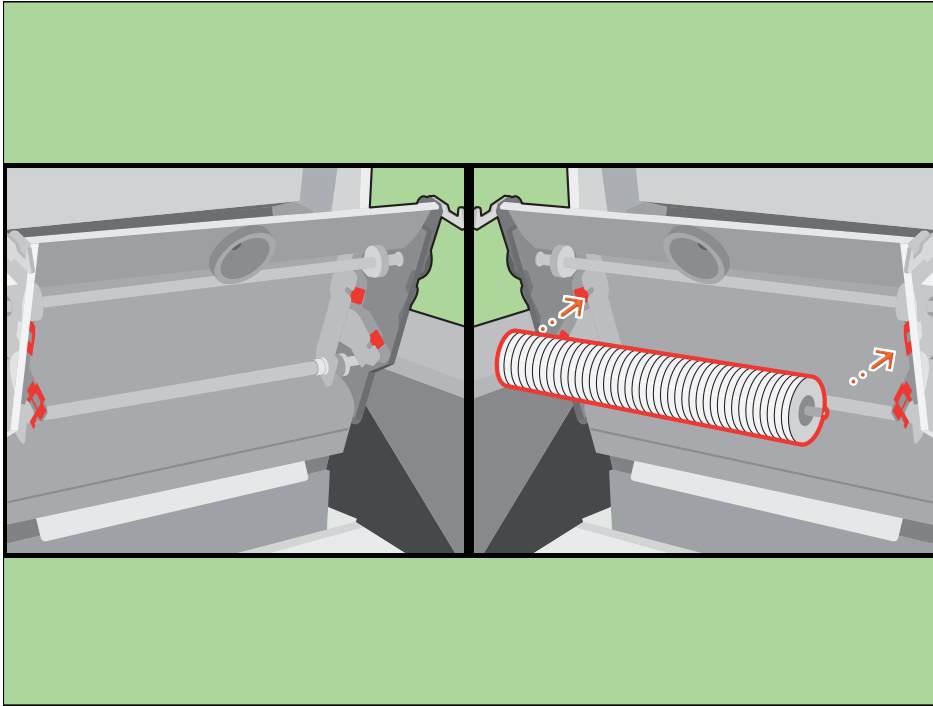
NOTE

Only use a new sheet cleaner if the cylinder does not contain enough clean-sheet paper.

Install the spiral cleaners

Procedure

1. Lock the right-hand spiral cleaner between the red leaf springs.



[14] Install the spiral cleaners

2. Repeat step 1 for the left-hand spiral cleaner.



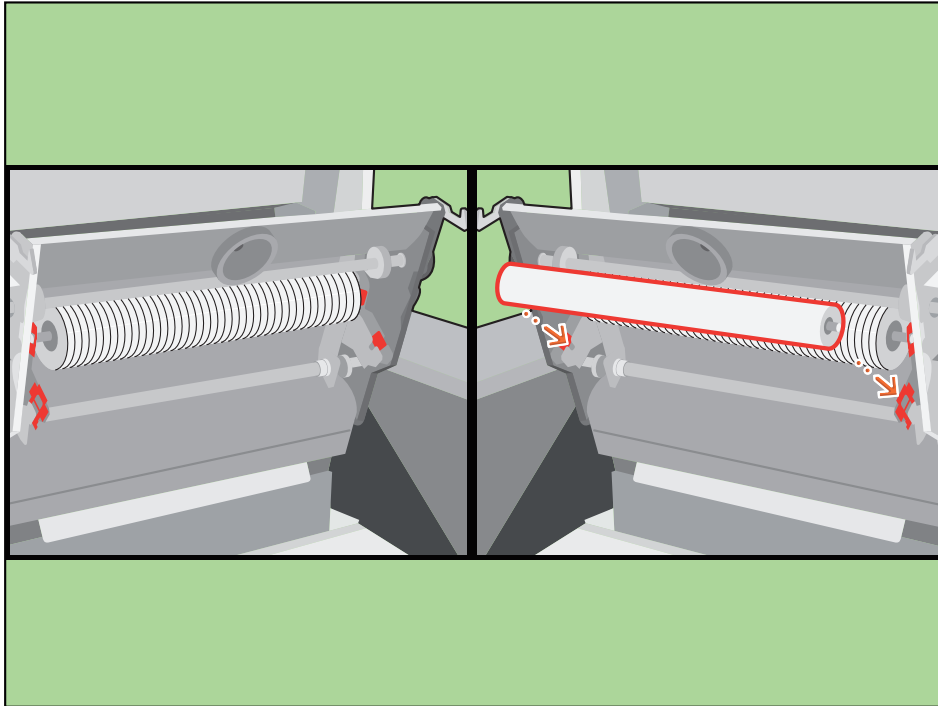
NOTE

The spiral cleaners only fit in one way.

Install the sheet cleaners

Procedure

1. Lock the right-hand sheet cleaner between the red leaf springs.



[15] Install the sheet cleaners

2. Repeat step 1 for the left-hand sheet cleaner.



NOTE

The sheet cleaners only fit in one way.

Lower the clean units

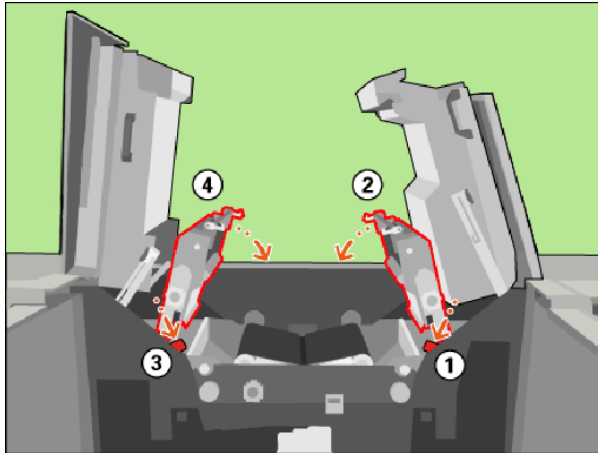
Procedure



IMPORTANT

Make sure that the clean units are in the lowest position.

1. Lift the right-hand clean unit and push the red handle to unlock the locking mechanism (1).
2. Lower the right-hand clean unit into the locked position (2).
3. Lift the left-hand clean unit and push the red handle to unlock the locking mechanism (3).
4. Lower the left-hand clean unit into the locked position (4).

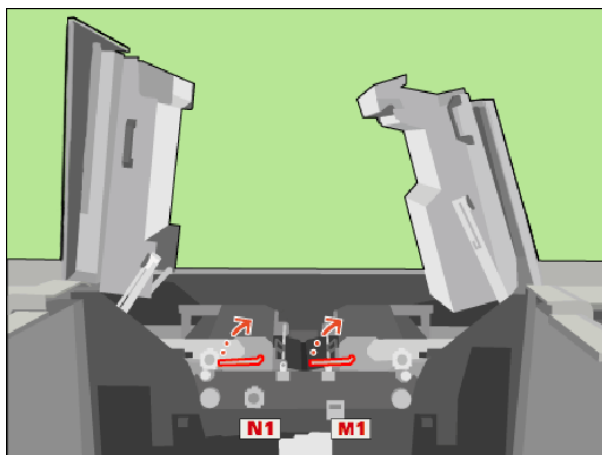


[16] Lower the clean units

Lock the clean units

Procedure

1. Use the service key to turn N1 clockwise.
2. Use the service key to turn M1 clockwise.

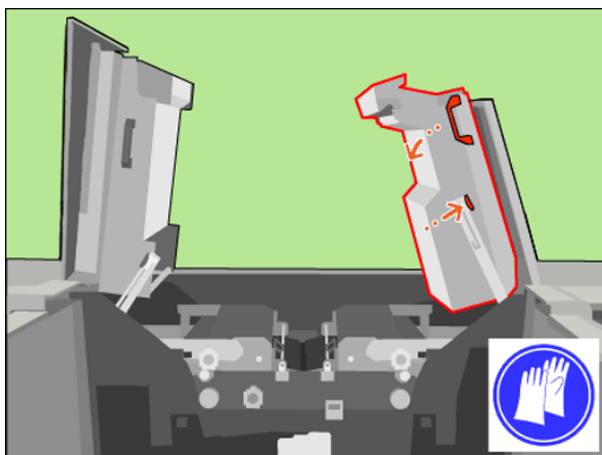


[17] Lock the clean units

Close the covers

Procedure

1. Unlock and lower the right-hand inner cover.



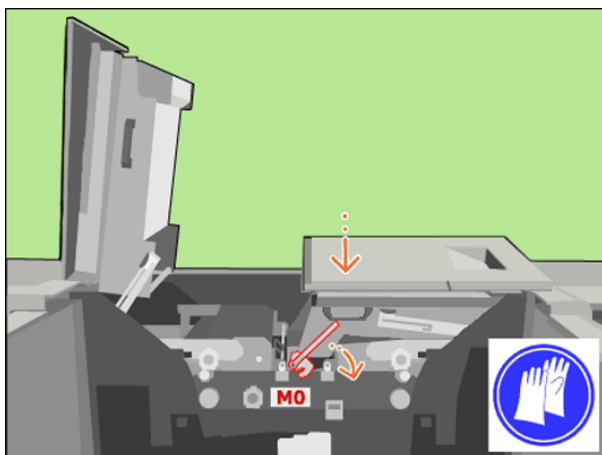
[18] Close the right-hand inner cover

2. Only when the M0 lock is present, push down the inner right-hand cover. Turn the M0 lock with the service key clockwise to lock the inner right-hand cover.



NOTE

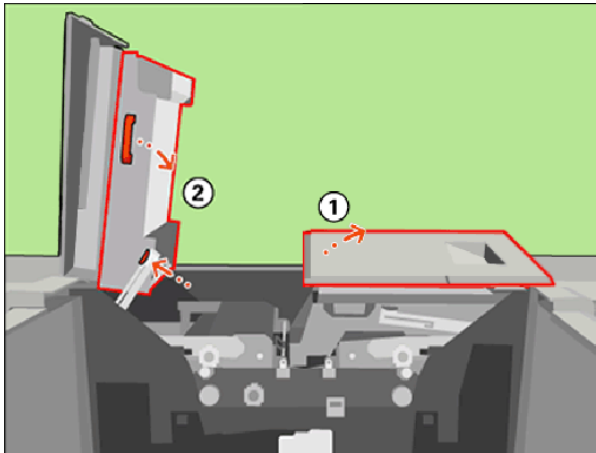
Remove the service key.



[19] When the M0 lock is present, lock the inner right-hand cover

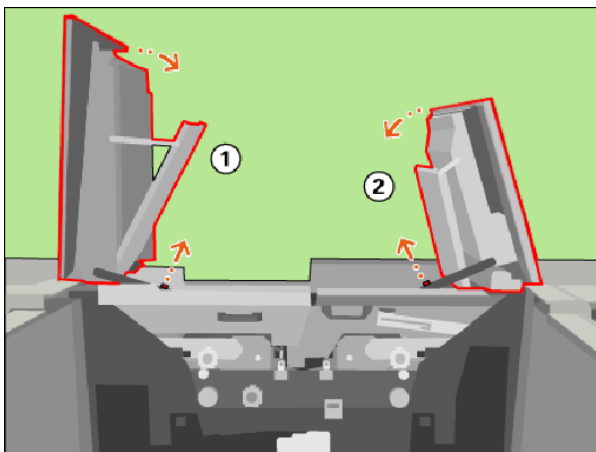
3. Lift the right-hand top cover to the upper position (1).

4. Unlock and lower the left-hand inner cover (2).



[20] Close the left-hand inner cover

5. Close the left-hand top cover (1).
6. Close the right-hand top cover (2).



[21] Close the top covers

Clean the frame unit

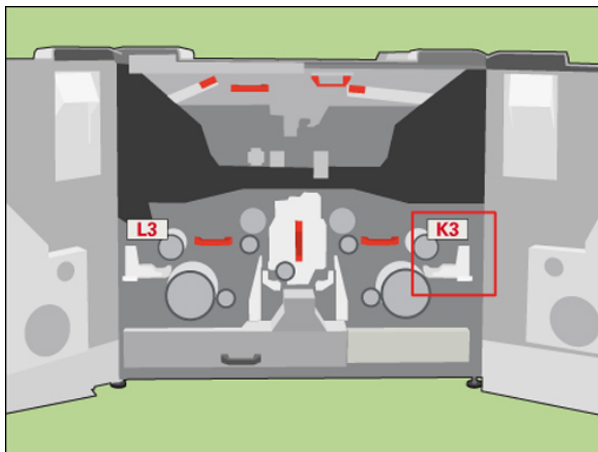
Procedure

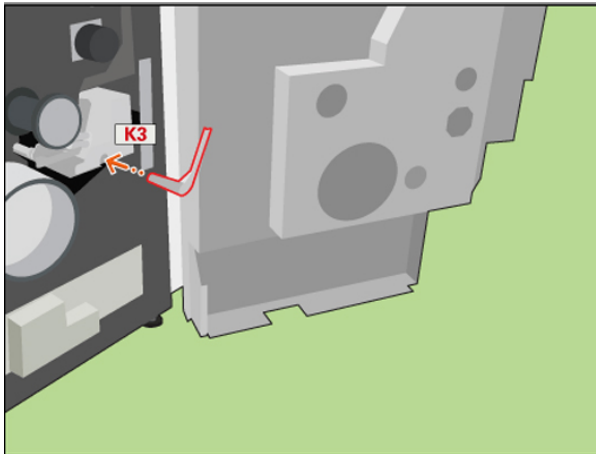
1. Required tools and materials:
 - Cleaner K.
 - D-wrench.
 - Cleaning pad.



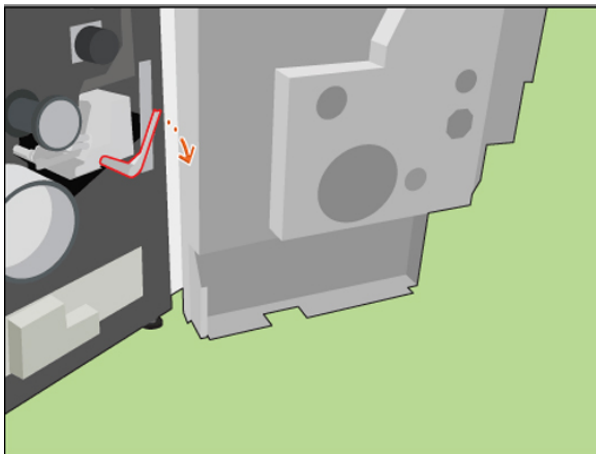
[22] Required tools and materials

2. Use a D-wrench to push and turn K3 clockwise.



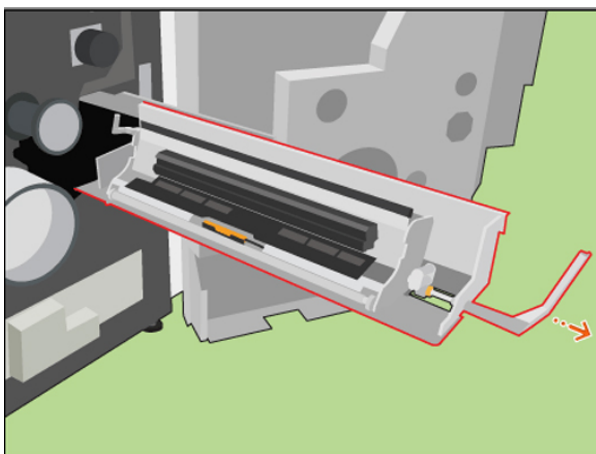


[24] Use a D-wrench to push K3.



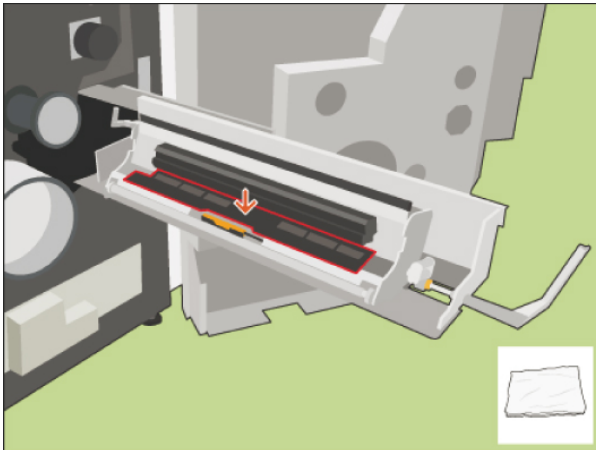
[25] Turn K3 clockwise

3. Move the frame unit outwards.



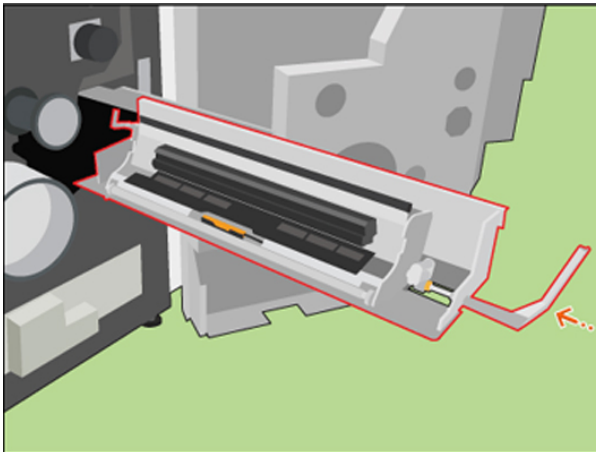
[26] Move the frame unit outwards.

4. Clean the frame unit with a cleaning pad.



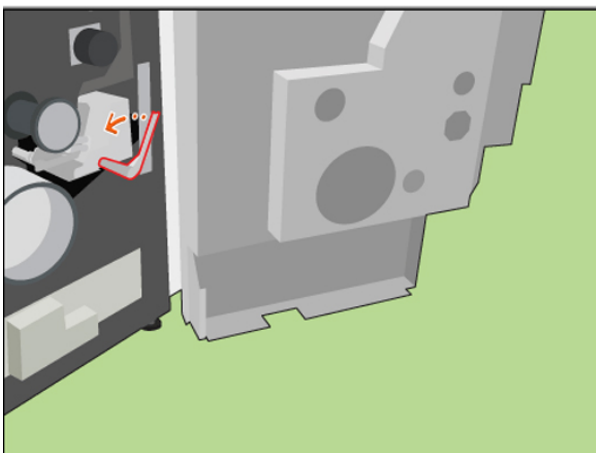
[27] Clean the frame unit with a cleaning pad

5. Push the frame inwards.



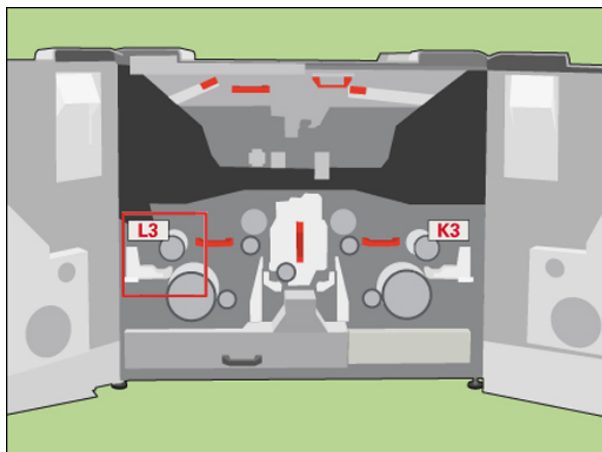
[28] Push the frame inwards

6. Use a D-wrench to push and turn K3 anticlockwise into the locked position.



[29] Turn K3 counter-clockwise into the locked position

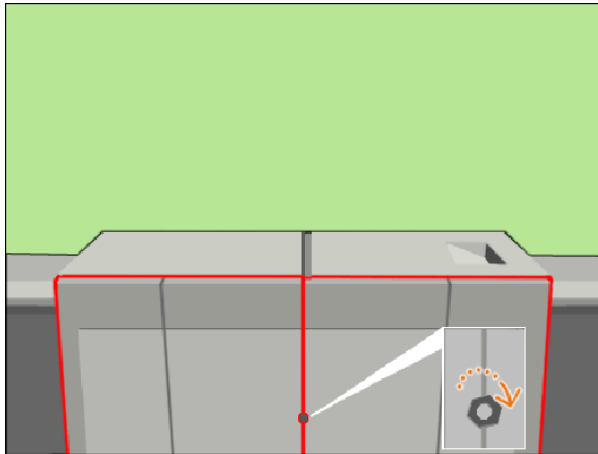
7. Repeat the steps 2 - 6 for the left-hand frame unit (L3).



Finish the maintenance task

Procedure

1. Close the front doors.
2. Use socket wrench 10 to tighten the bolt of the front doors.



[31] Close the front doors

3. Close the lower door.
4. On the operator panel, confirm that you successfully replaced the cleaners.
5. Press [Stop] to close the maintenance screen. The machine is turned on.

Lock the clean unit (left)

Introduction

This procedure is only intended for key operators who received the special maintenance training.

When to do

After you replaced the cleaners [Replace the cleaners on page 14](#), you must restart the machine. If you accidentally forgot to lock a clean unit after you replaced the cleaners, the machine will detect this during the initialization. Then the operator panel will display this maintenance task.

Required tools

Service key (supplied with the machine)

Socket wrench 10 (supplied with the machine)

Procedure

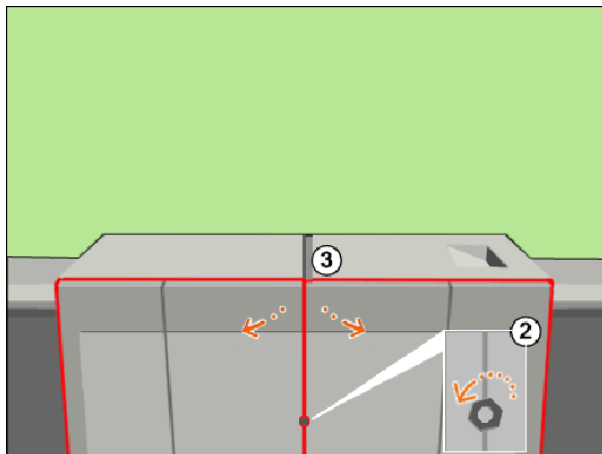
1. Press [Start] to start the maintenance wizard.
At the start of the procedure, the machine is turned off.



CAUTION

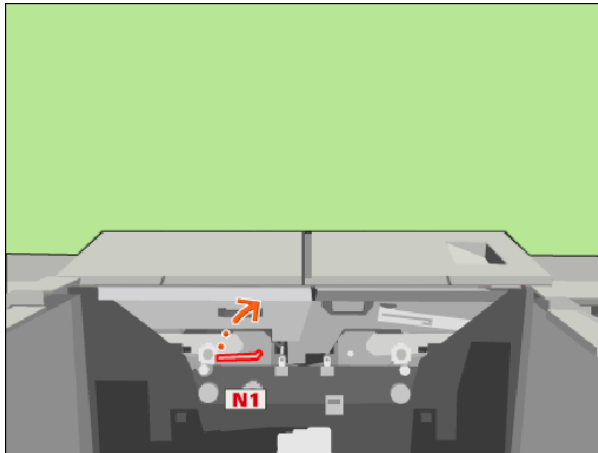
Wait until the machine is turned off. Opening the doors too soon can possibly cause injury.

2. Use socket wrench 10 to loosen the bolt of the front doors (2).
3. Open the front doors (3).



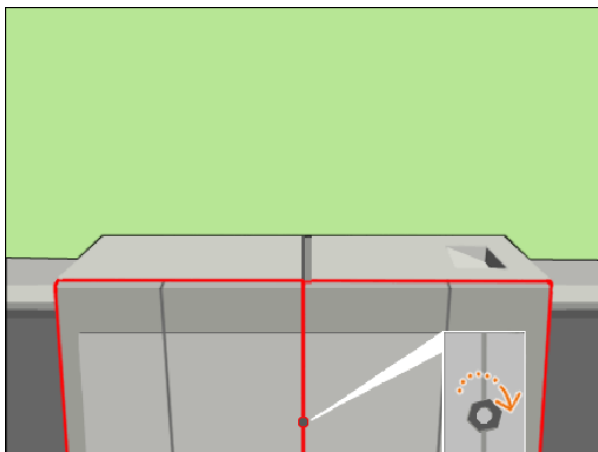
[32] Open the front doors

4. Use the service key to turn N1 clockwise.



[33] Lock the clean unit

5. Close the front doors.
6. Use socket wrench 10 to tighten the bolt of the front doors.



[34] Close the front doors

7. On the operator panel, confirm that you successfully locked the clean unit.
8. Press [Stop] to close the maintenance screen. The machine is turned on.

Lock the clean unit (right)

Introduction

This procedure is only intended for key operators who received the special maintenance training.

When to do

After you replaced the cleaners [Replace the cleaners on page 14](#), you must restart the machine. If you accidentally forgot to lock a clean unit after you replaced the cleaners, the machine will detect this during the initialization. Then the operator panel will display this maintenance task.

Required tools

Service key (supplied with the machine)

Socket wrench 10 (supplied with the machine)

Procedure

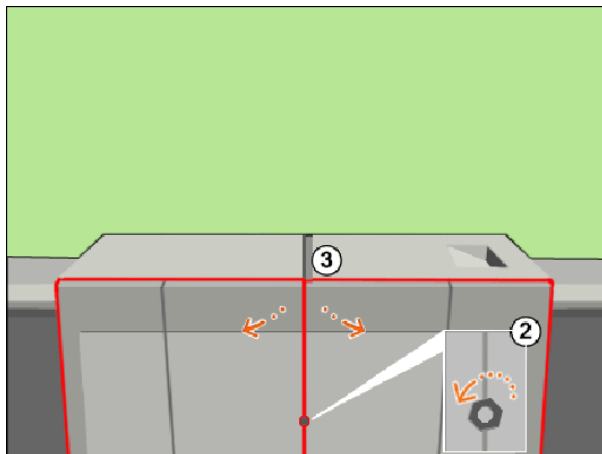
1. Press [Start] to start the maintenance wizard.
At the start of the procedure, the machine is turned off.



CAUTION

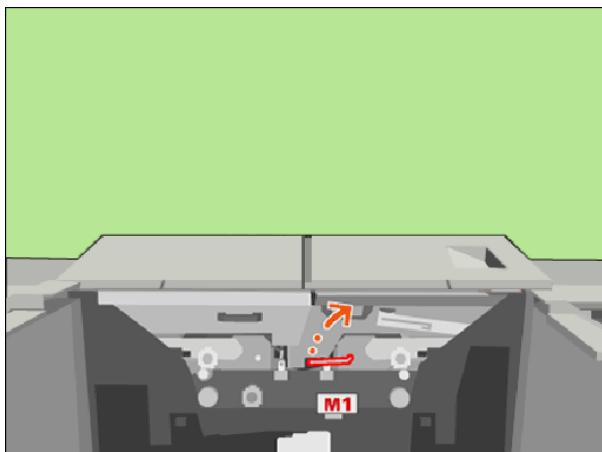
Wait until the machine is turned off. Opening the doors too soon can possibly cause injury.

2. Use socket wrench 10 to loosen the bolt of the front doors (2).
3. Open the front doors (3).



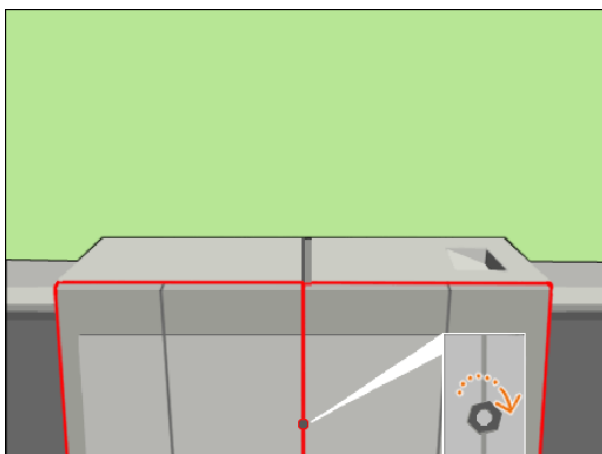
[35] Open the front doors

4. Use the service key to turn M1 clockwise.



[36] Lock the clean unit

5. Close the front doors.
6. Use socket wrench 10 to tighten the bolt of the front doors.



[37] Close the front doors

7. On the operator panel, confirm that you successfully locked the clean unit.
8. Press [Stop] to close the maintenance screen. The machine is turned on.

Chapter 3

Maintenance tasks - Level 2

Remove sheets from the process modules

Remove sheets from the interface module

Introduction

During the printing process, sheets can get stuck in one or more process modules. Sometimes, you can only remove these sheets when the machine is off, for example when a sheet is stuck in the preheat unit. Then, only trained operators are allowed to remove these sheets. This section describes the procedure to check all the modules and remove the sheets.

Required tools

- Service key (supplied with the machine)
- Socket wrench 10 (supplied with the machine)
- Heat-resistant gloves (supplied with the machine)

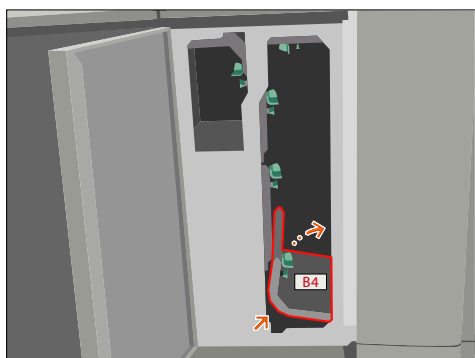


CAUTION

Certain parts of the machine may be hot. Therefore, always use the special heat- and oil-resistant fuser gloves.

Procedure

1. Open the front door of the interface module.
2. Remove the sheets at B4.



[38] Remove the sheets at B4

3. Close B4. Also push the rear side of B4 to close B4 completely.
4. Close the front door of the interface module.



NOTE

After you checked the interface module for sheets, you must press [Next] on the operator panel to continue.

Open the doors

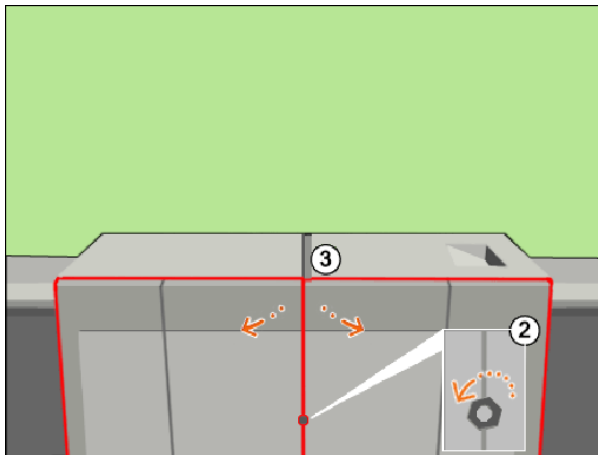
Procedure

1. At the start of the procedure, the machine is turned off.

**CAUTION**

Wait until the machine is turned off. Opening the doors too soon can possibly cause injury.

2. Use socket wrench 10 to loosen the bolt of the front doors (2).
3. Open the front doors (3).

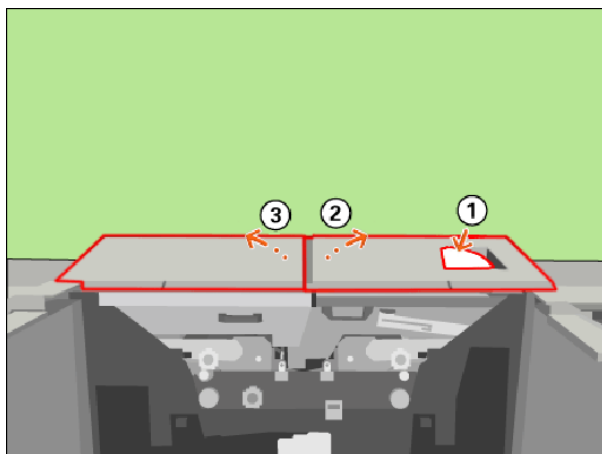


[39] Open the front doors

Remove sheets at the top cover

Procedure

1. Remove the sheets at the top cover (1).
2. Lift the right-hand top cover to the upper position (2).
3. Lift the left-hand top cover to the upper position (3).



[40] Remove the sheets at the top cover

Remove sheets at the inner covers

Procedure

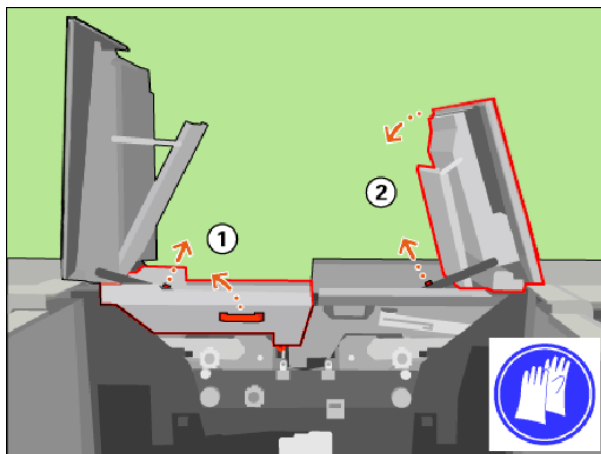
**CAUTION**

Hot area. Use heat-resistant gloves.

**CAUTION**

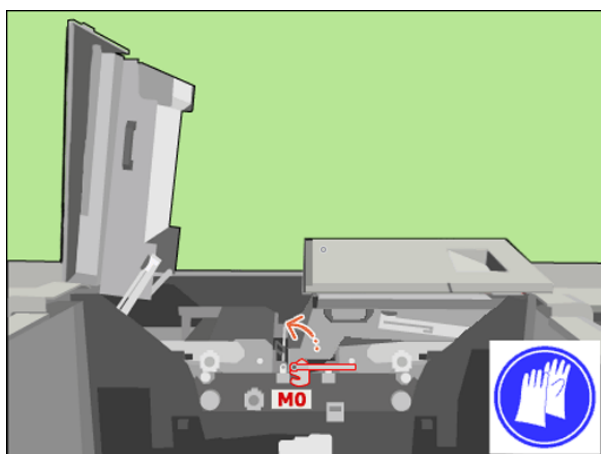
Make sure that the left-hand inner cover is locked in the upper position.

1. Remove the sheets at the inner covers.
2. Unlock the left-hand inner cover and lift the left-hand inner cover to the upper position (1).
3. Unlock and **lower** the right-hand top cover (2).



[41] Open the inner covers (1 of 2)

4. Only when the M0 lock is present, turn the M0 lock with the service key counter-clockwise to unlock the inner right-hand cover.



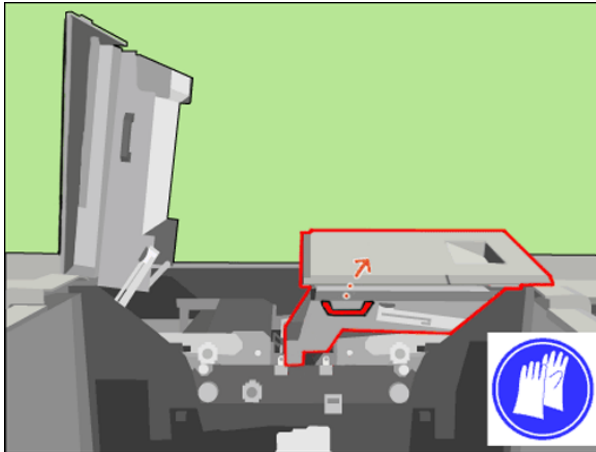
[42] When the M0 lock is present, unlock the inner right-hand cover



CAUTION

Make sure that the right-hand inner cover is locked in the upper position.

5. Lift the right-hand inner cover to the upper position.



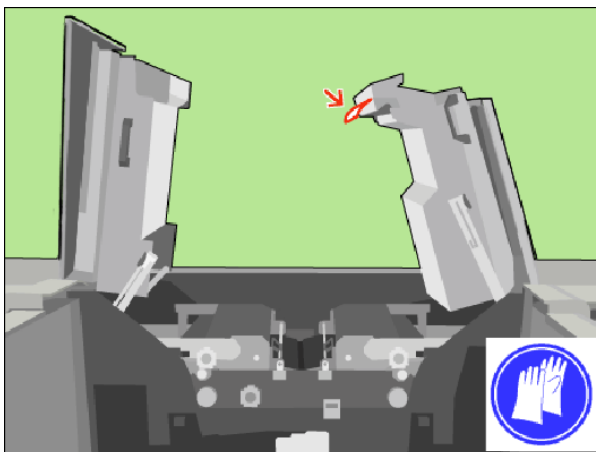
[43] Open the inner covers (2 of 2)

6. Remove the sheets from the receiving unit.



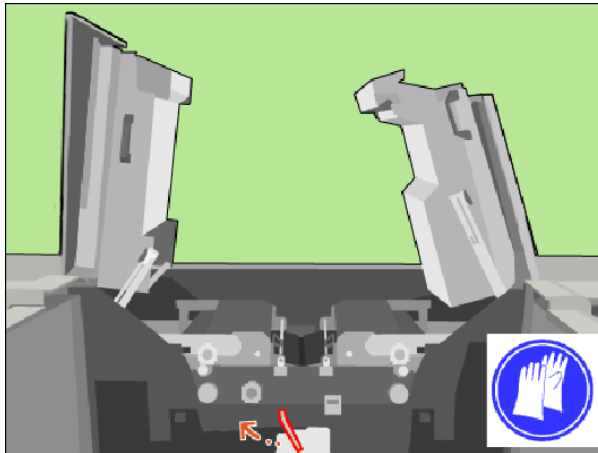
NOTE

Always pull out the sheet straight and in horizontal direction.



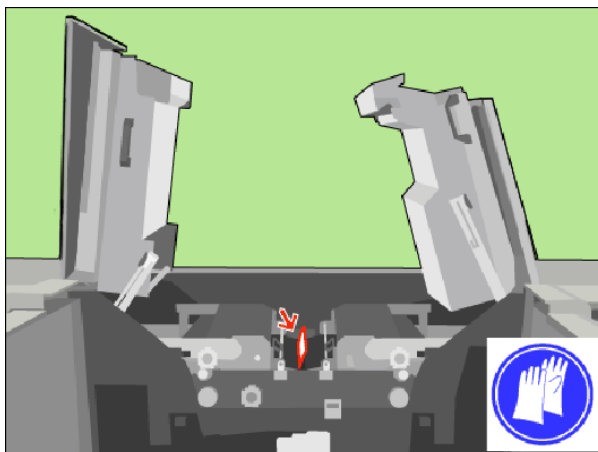
[44] Remove the sheets from the receiving unit

7. Use the service key to turn the axle of the transfuse pinch clockwise. The transfuse pinch gets unlocked.



[45] Unlock the transfuse pinch

8. Remove the sheets from the transfuse pinch.



[46] Remove the sheets from the transfuse pinch

9. When the optional light-weight media module is installed, you might have to remove the air guidance unit to remove the sheets.
Remove the air guidance unit on page 101.
Remove the sheets.
Install the air guidance unit on page 103.

Remove sheets from the registration unit

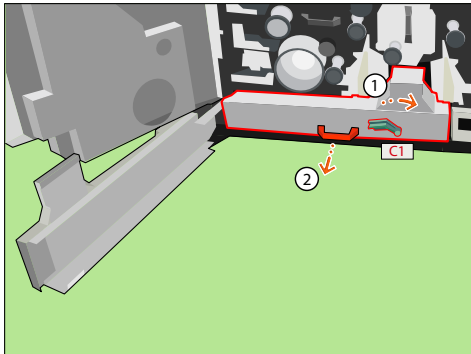
Procedure

1. Turn handle C1 clockwise (1).
2. Open drawer C1 (2).



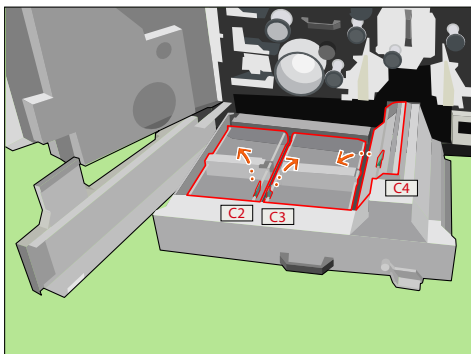
NOTE

Opening the drawer can be difficult due to jammed media.



[47] Open the registration unit

3. Remove the sheets at C2, C3 and C4.



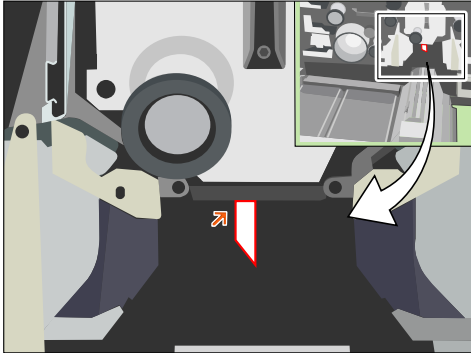
[48] Remove the sheets from the registration unit



CAUTION

Hot area.

4. Remove the sheets below the preheat unit.



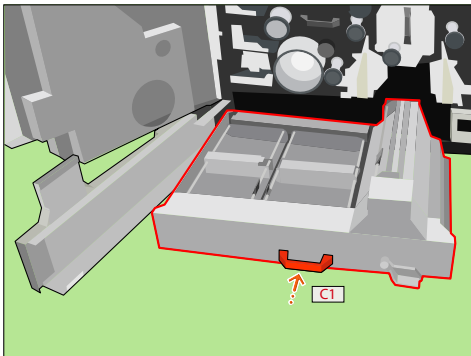
[49] Remove the sheets below the preheat unit

5. Close drawer C1.



NOTE

Do not turn handle C1.



[50] Close drawer C1

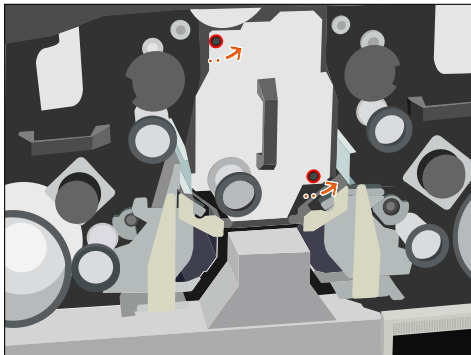
Remove the preheat unit

Procedure



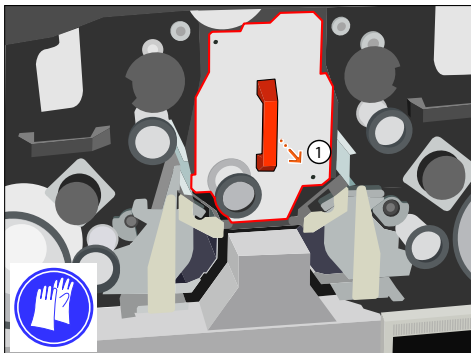
CAUTION
Hot area. Use heat-resistant gloves.

1. Remove the bolts of the preheat unit to unlock the preheat unit.



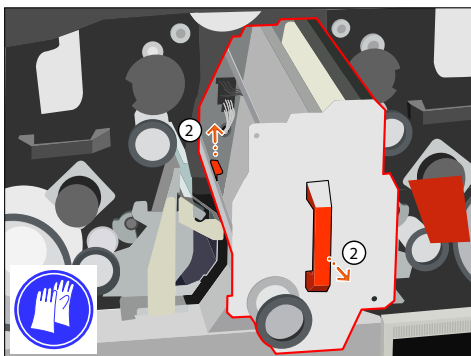
[51] Unlock the preheat unit

2. Pull out the unit as far as possible.



[52] Pull the unit out

3. Lift the red handle and pull the unit further outwards.



[53] Pull the unit out further

4. Lower the front of the unit and remove the unit.

5. Put the unit on a heat-resistant base. Make sure that the left-hand side is on top.

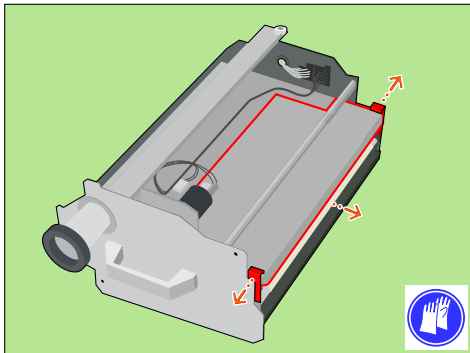
Disassemble and assemble the preheat unit

Procedure



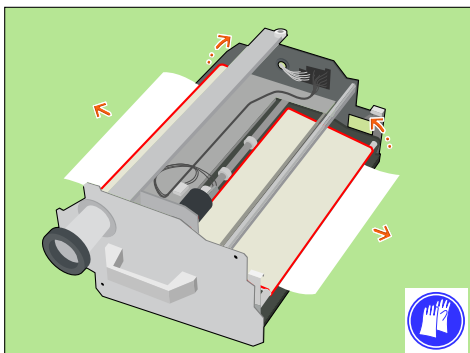
CAUTION
Hot area. Use heat-resistant gloves.

1. Press both red leaf springs at the preheat unit plate outwards and pull out the plate.



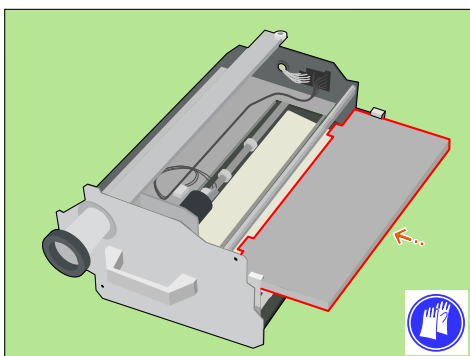
[54] Disassemble the preheat unit

2. Turn both belts to remove the sheets inside the preheat unit.



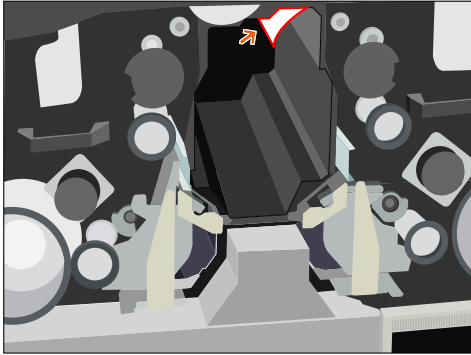
[55] Turn the belts

3. Put the preheat unit plate back.



[56] Assemble the preheat unit

4. Remove the sheets below the transfer unit.



[57] Remove the sheets below the transfer unit

Install the preheat unit

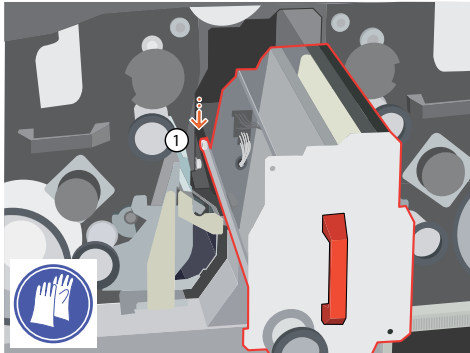
Procedure



CAUTION

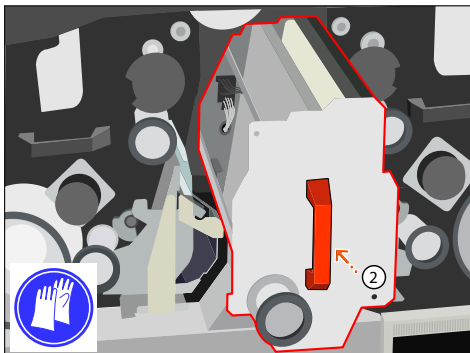
Hot area. Use heat-resistant gloves.

1. Put the slider wheels of the preheat unit behind the slider wheels of the machine.



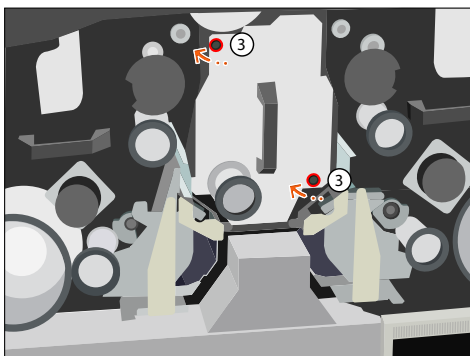
[58] Install the preheat unit

2. Put the preheat unit in horizontal position and push the unit into the machine.



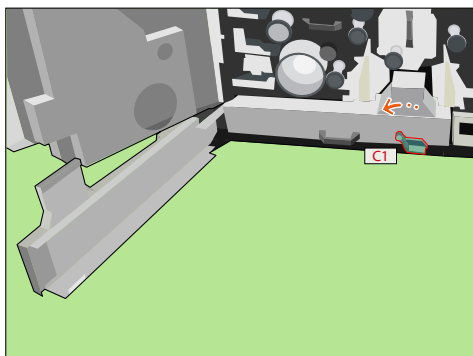
[59] Push the preheat unit into the machine

3. Replace and tighten the bolts of the preheat unit.



[60] Tighten the bolts

4. Turn handle C1 anticlockwise to lock the registration unit.



[61] Lock the registration unit

Unlock the clean units

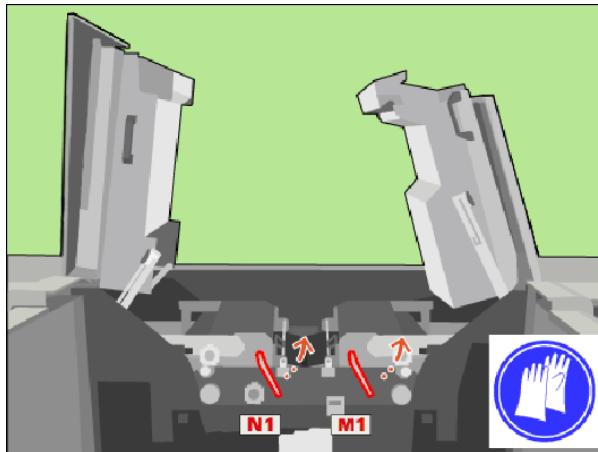
Procedure



CAUTION

Hot area. Use heat-resistant gloves.

1. Use the service key to turn N1 counter-clockwise.
2. Use the service key to turn M1 counter-clockwise.



[62] Unlock the clean units

Lift the clean units

Procedure



CAUTION

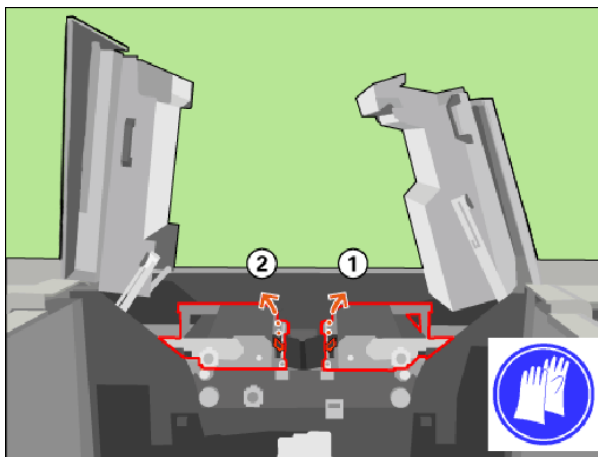
Hot area. Use heat-resistant gloves.



CAUTION

Make sure that both clean units are locked in the upper position.

1. Use the red handle to lift the right-hand clean unit to the upper position (1).
2. Use the red handle to lift the left-hand clean unit to the upper position (2).



[63] Lift the clean units

When you press [Next] on the operator panel, a dialog box appears.



IMPORTANT

A sheet on one of the spiral cleaners or on both spiral cleaners will seriously damage the machine.

3. Check whether there is a sheet on one of the spiral cleaners.
If not, go to step 4. If there is, go to step 5.
4. Press [No] if the spiral cleaners do not have sheets on them.
5. Press [Yes] if there is a sheet on one of the spiral cleaners. Now you must follow the procedures for removing, reconditioning and installing of the sheet cleaners and spiral cleaners [Replace the cleaners on page 14](#).

Lower the clean units

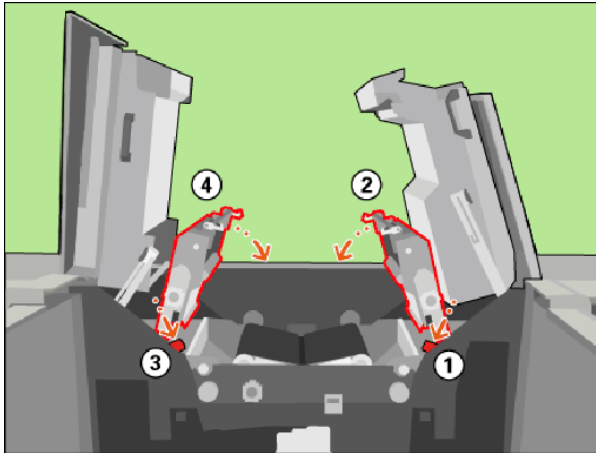
Procedure



IMPORTANT

Make sure that the clean units are in the lowest position.

1. Lift the right-hand clean unit and push the red handle to unlock the locking mechanism (1).
2. Lower the right-hand clean unit into the locked position (2).
3. Lift the left-hand clean unit and push the red handle to unlock the locking mechanism (3).
4. Lower the left-hand clean unit into the locked position (4).

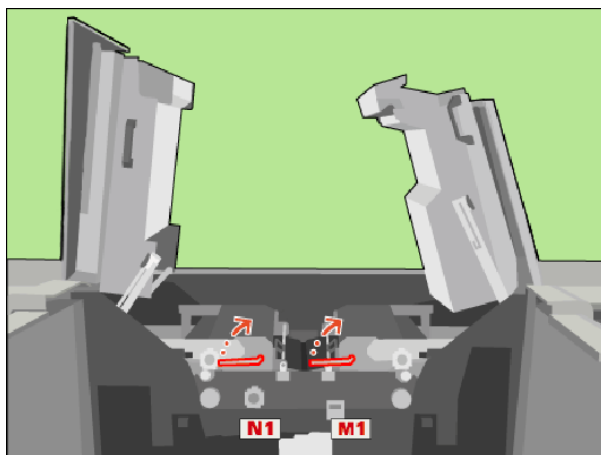


[64] Lower the clean units

Lock the clean units

Procedure

1. Use the service key to turn N1 clockwise.
2. Use the service key to turn M1 clockwise.

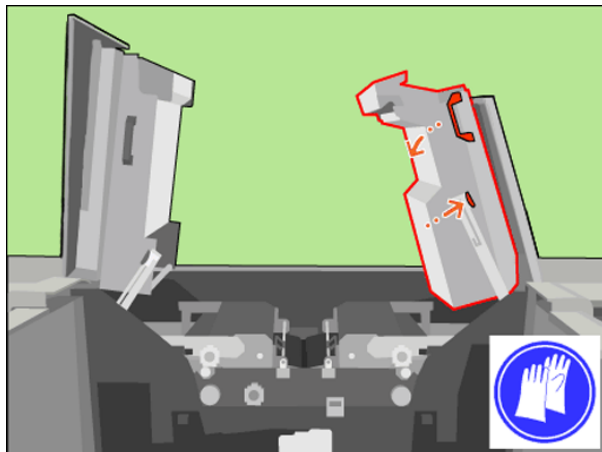


[65] Lock the clean units

Close the covers

Procedure

1. Unlock and lower the right-hand inner cover.



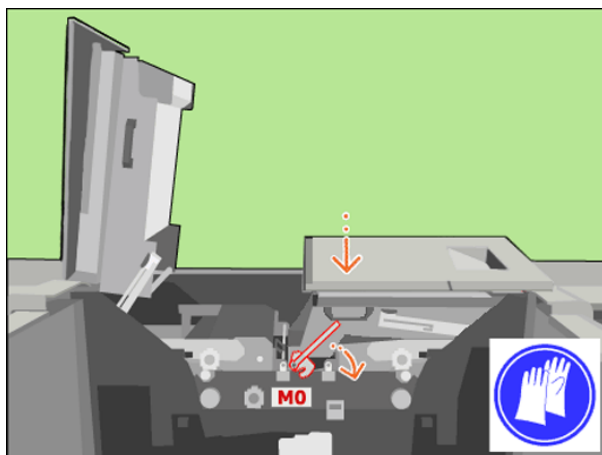
[66] Close the right-hand inner cover

2. Only when the M0 lock is present, push down the inner right-hand cover. Turn the M0 lock with the service key clockwise to lock the inner right-hand cover.



NOTE

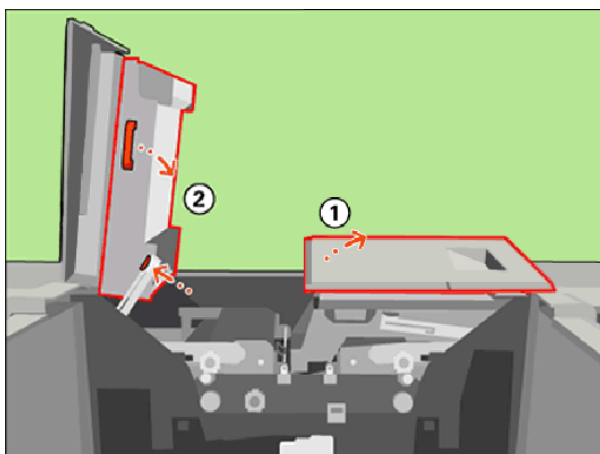
Remove the service key.



[67] When the M0 lock is present, lock the inner right-hand cover

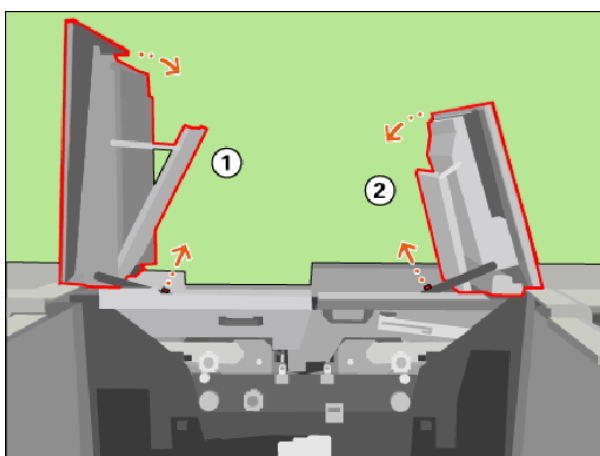
3. Lift the right-hand top cover to the upper position (1).

4. Unlock and lower the left-hand inner cover (2).



[68] Close the left-hand inner cover

5. Close the left-hand top cover (1).
6. Close the right-hand top cover (2).

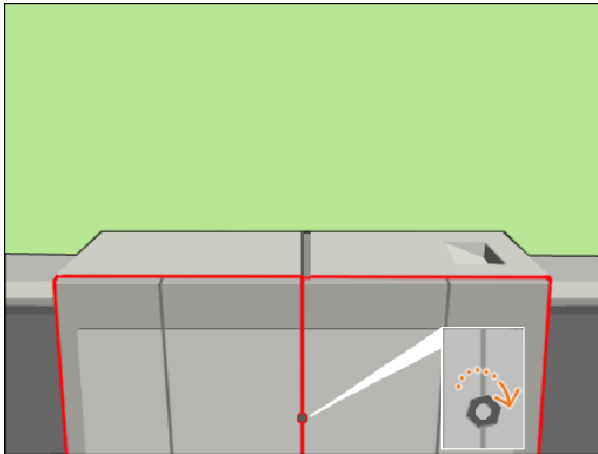


[69] Close the top covers

Finish the maintenance task

Procedure

1. Close the front doors.
2. Use socket wrench 10 to tighten the bolt of the front doors.



[70] Close the front doors

3. On the operator panel, confirm that you successfully removed the sheets.
4. Press [Stop] to close the maintenance screen. The machine is turned on.

Clean the OPC belt (left)

Open the doors

Introduction

This procedure is only intended for key operators who received the special maintenance training.

When to do

When a pollution is visible at exact the same height on an A4 print or a letter print after each 6 to 8 prints.

Or when a pollution is visible on a print that is larger than the paper size of the bulk media used. The pollution is visible on the operator side or the back side of a print (Z direction).

Before you begin

Make sure that you have the Cleaner J, the cleaning gloves and the offset pads at hand.

Required tools

Service key (supplied with the machine)

Socket wrench 10 (supplied with the machine)

Cleaning gloves (supplied with the machine)

Procedure

1. Select the maintenance task from the list of the required and suggested maintenance tasks.
[System] view -> maintenance section -> press the [Go to maintenance tasks] button.
2. Press [Start] to start the maintenance wizard.
At the start of the procedure, the machine is turned off.

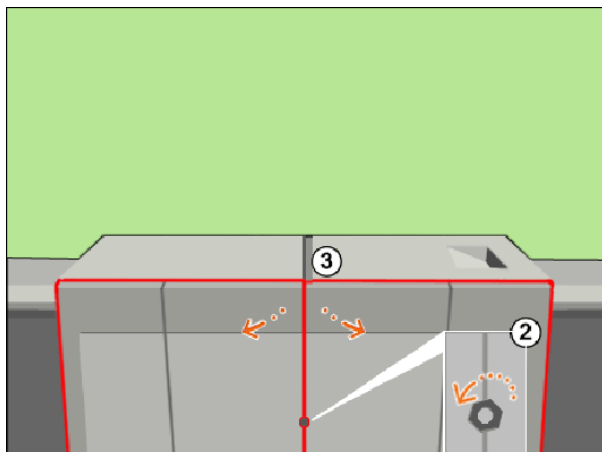


CAUTION

Wait until the machine is turned off. Opening the doors too soon can possibly cause injury.

3. Use socket wrench 10 to loosen the bolt of the front doors (2).

4. Open the lower door. Open the front doors (3).

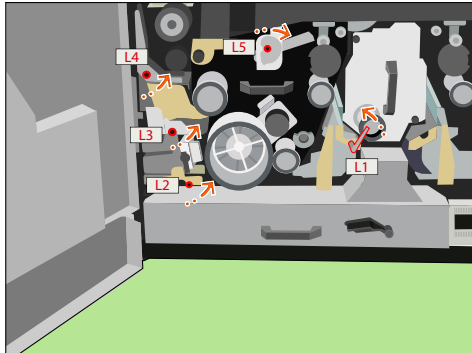


[71] Open the front doors

Unlock the OPC unit (left)

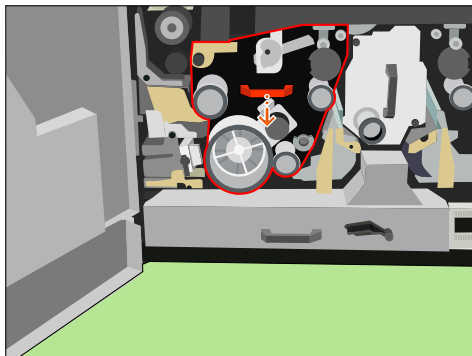
Procedure

1. Use the service key to push and turn L1 counter-clockwise.
2. Use the service key to turn L2 counter-clockwise.
3. Use the service key to push and turn L3 counter-clockwise.
4. Use the service key to push and turn L4 counter-clockwise.
5. Use the service key to turn L5 clockwise.



[72] Unlock the OPC unit

6. Use the red handle to move the OPC unit as far outward as possible.



[73] Move the OPC unit out

Clean the OPC belt (left)

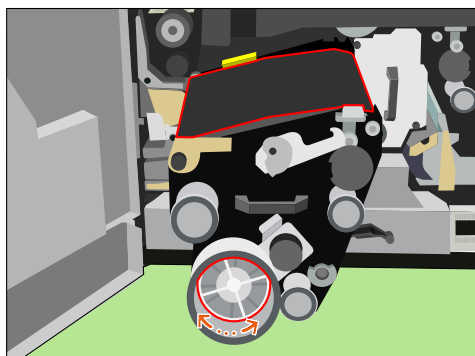
Procedure



IMPORTANT

Do not touch the OPC belt with your fingers. Wear cleaning gloves.

1. Rotate the metal OPC pulley to locate the spot(s) on the OPC.



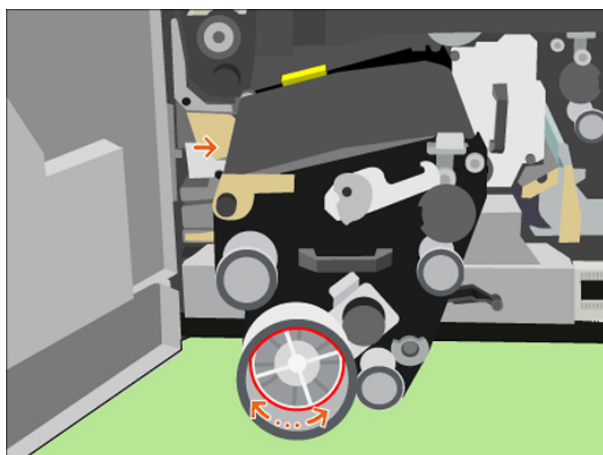
[74] Rotate the OPC pulley to locate the spots

2. Rotate the OPC pulley until the spot(s) are in the indicated area



NOTE

In this area, the OPC has a hard bottom surface which is required to enable proper cleaning without damaging the OPC belt.



[75] Position the spot(s) in the indicated area

3. Apply a small amount of Cleaner J on an offset pad.
4. Clean the spot(s) with this offset pad.
When you cannot clean the spots with Cleaner J, use Cleaner P.



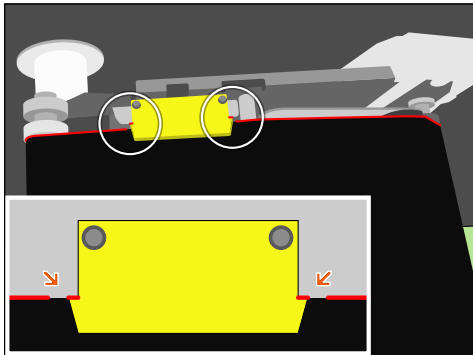
[76] Clean the OPC

5. Carefully remove all Cleaner from the OPC belt. Use new offset pads for this.

Lock the OPC unit (left)

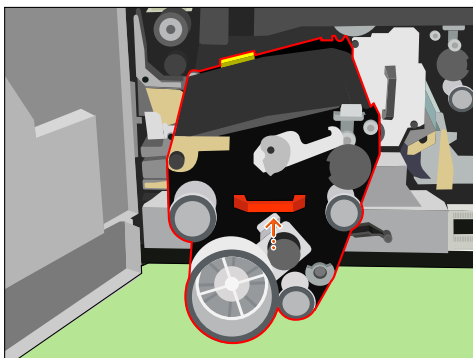
Procedure

1. Rotate the metal OPC pulley until the end of the back side of the OPC belt runs near (+/- 0.1 inch) the arrows of the yellow registration board.



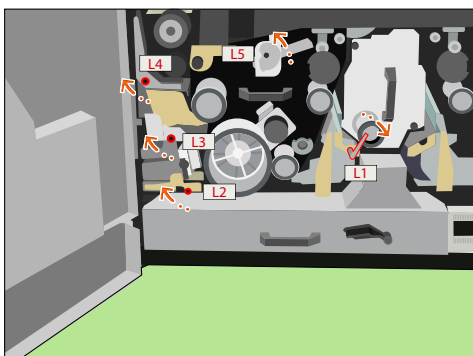
[77] Reposition the OPC belt

2. Use the red handle to push the OPC unit inwards as far as possible.



[78] Move the OPC unit in

3. Use the service key to turn L5 counter-clockwise into the locked position.
4. Use the service key to turn L4 clockwise into the locked position.
5. Use the service key to turn L3 clockwise into the locked position.
6. Use the service key to turn L2 clockwise into the locked position.
7. Use the service key to turn L1 clockwise into the locked position.

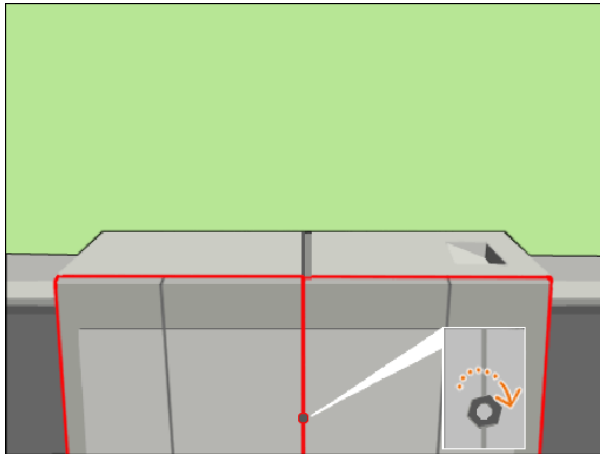


[79] Lock the OPC unit

Finish the maintenance task

Procedure

1. Close the front doors.
2. Use socket wrench 10 to tighten the bolt of the front doors.



[80] Close the front doors

3. Close the lower door.
4. On the operator panel, confirm that you successfully cleaned the OPC belt.
5. Press [Stop] to close the maintenance screen. The machine is turned on.

Clean the OPC belt (right)

Open the doors

Introduction

This procedure is only intended for key operators who received the special maintenance training.

When to do

When a pollution is visible at exact the same height on an A4 print or a letter print after each 6 to 8 prints.

Or when a pollution is visible on a print that is larger than the paper size of the bulk media used. The pollution is visible on the operator side or the back side of a print (Z direction).

Before you begin

Make sure that you have the Cleaner J, the cleaning gloves and the offset pads at hand.

Required tools

Service key (supplied with the machine)

Socket wrench 10 (supplied with the machine)

Cleaning gloves (supplied with the machine)

Procedure

1. Select the maintenance task from the list of the required and suggested maintenance tasks.
[System] view -> maintenance section -> press the [Go to maintenance tasks] button.
2. Press [Start] to start the maintenance wizard.
At the start of the procedure, the machine is turned off.

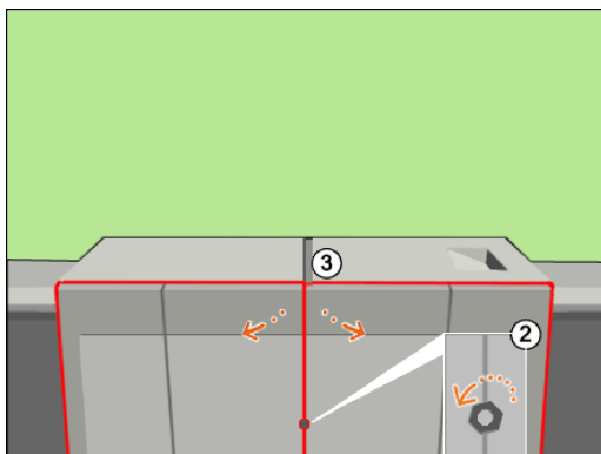


CAUTION

Wait until the machine is turned off. Opening the doors too soon can possibly cause injury.

3. Use socket wrench 10 to loosen the bolt of the front doors (2).

4. Open the lower door. Open the front doors (3).

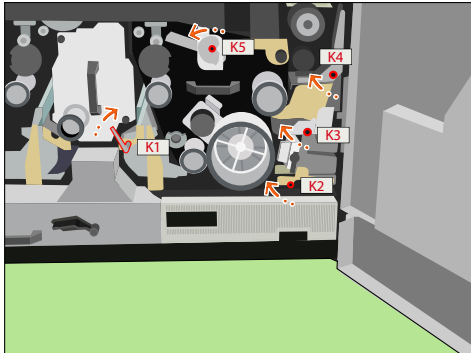


[81] Open the front doors

Unlock the OPC unit (right)

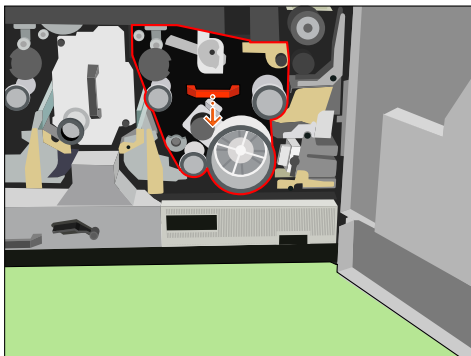
Procedure

1. Use the service key to push and turn K1 clockwise.
2. Use the service key to turn K2 clockwise.
3. Use the service key to push and turn K3 clockwise.
4. Use the service key to push and turn K4 clockwise.
5. Use the service key to turn K5 counter-clockwise.



[82] Unlock the OPC unit

6. Use the red handle to move the OPC unit as far outward as possible.



[83] Move the OPC unit out

Clean the OPC belt (right)

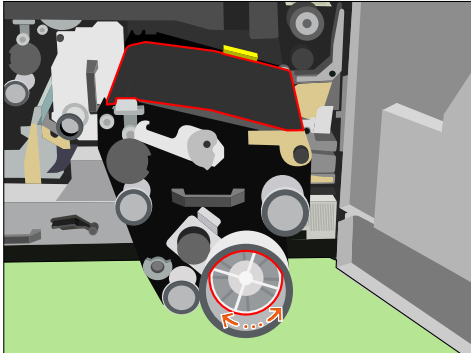
Procedure



IMPORTANT

Do not touch the OPC belt with your fingers. Wear cleaning gloves.

1. Rotate the metal OPC pulley until the spots are visible.



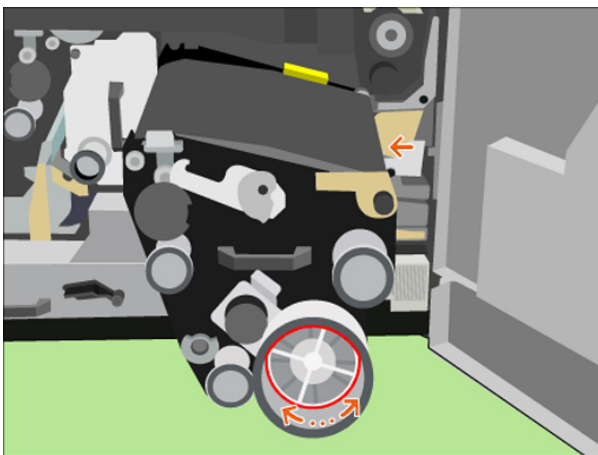
[84] Rotate the OPC pulley to locate the spots

2. Rotate the OPC pulley until the spots are in the indicated area.



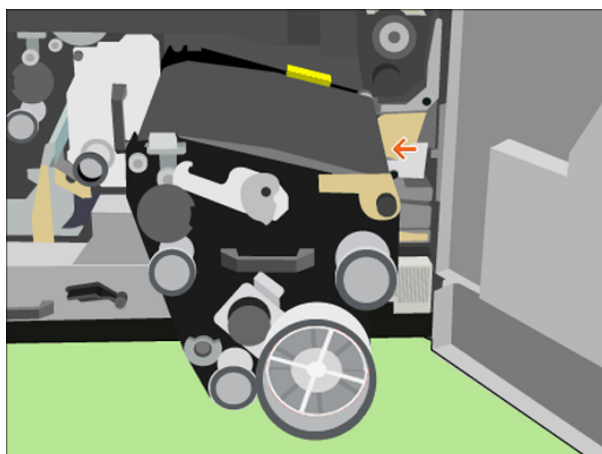
NOTE

In this area, the OPC has a hard bottom surface which is required to enable proper cleaning without damaging the OPC belt.



[85] Position the spots in the indicated area

3. Apply a small amount of Cleaner J on an offset pad.
4. Clean any spots with this offset pad.
When you cannot clean the spots with Cleaner J, use Cleaner P.



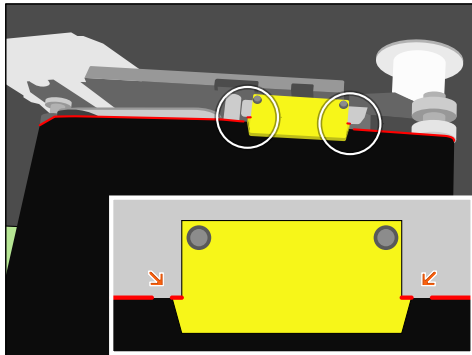
[86] Clean the OPC

5. Carefully remove all Cleaner from the OPC belt. Use new offset pads for this.

Lock the OPC unit (right)

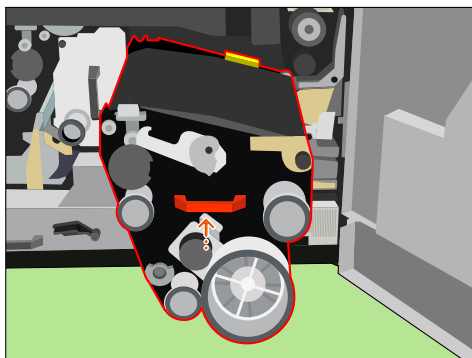
Procedure

1. Rotate the metal OPC pulley until the end of the back side of the OPC belt runs near (+/- 0.1 inch) the arrows of the yellow registration board.



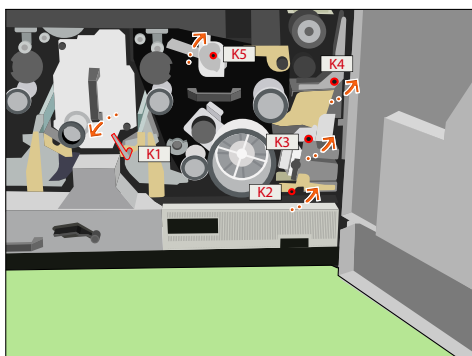
[87] Reposition the OPC belt

2. Use the red handle to push the OPC unit inwards as far as possible.



[88] Move the OPC unit in

3. Use the service key to turn K5 clockwise into the locked position.
4. Use the service key to turn K4 counter-clockwise into the locked position.
5. Use the service key to turn K3 counter-clockwise into the locked position.
6. Use the service key to turn K2 counter-clockwise into the locked position.
7. Use the service key to turn K1 counter-clockwise into the locked position.

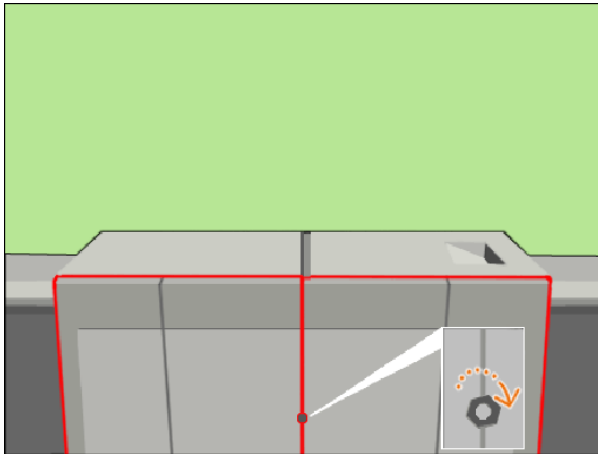


[89] Lock the OPC unit

Finish the maintenance task

Procedure

1. Close the front doors.
2. Use socket wrench 10 to tighten the bolt of the front doors.



[90] Close the front doors

3. Close the lower door.
4. On the operator panel, confirm that you successfully cleaned the OPC belt.
5. Press [Stop] to close the maintenance screen. The machine is turned on.

Clean the glue cleaning rollers

Open the doors and covers

Introduction

This procedure is only intended for key operators who received the special maintenance training.

When to do

Certain media may contain substances (for example ink or wax) that pollute the machine. This pollution can lead to decreased image quality and/or machine damage. Depending on the amount of substances, you must clean the glue cleaning rollers at a certain interval. Consult your service technician if you need advise.

Before you begin

Make sure that the machine is switched off.

Required tools

Service key (supplied with the machine)
Socket wrench 10 (supplied with the machine)
Heat-resistant gloves (supplied with the machine)
Offset pads (supplied with the machine)
Large sheets of paper to protect the OPC
Cleaner P (supplied with the machine)
Cleaner K
Cleaner T



CAUTION

Hot area. Use heat-resistant gloves.

Procedure

1. Select the maintenance task from the list of the required and suggested maintenance tasks.
[System] view -> maintenance section -> press the [Go to maintenance tasks] button.
2. Press [Start] to start the maintenance wizard.

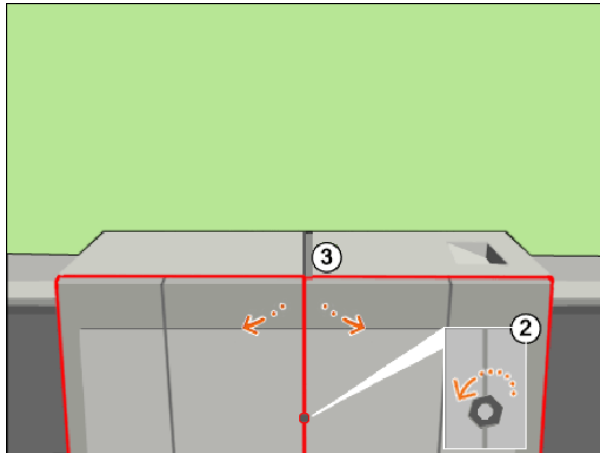


CAUTION

Make sure that the machine is switched off. Opening the doors too soon can possibly cause injury.

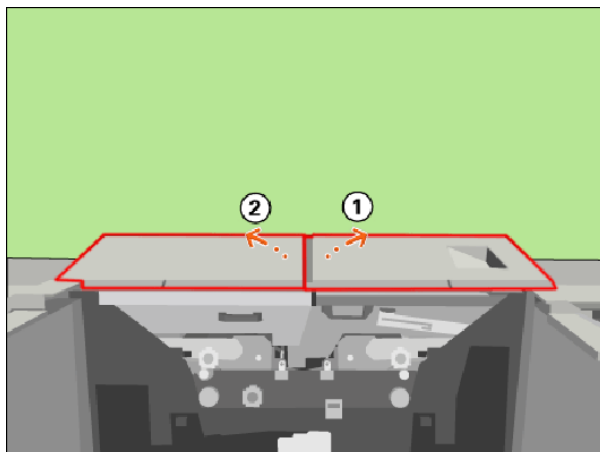
3. Use socket wrench 10 to loosen the bolt of the front doors (2).

4. Open the front doors (3).



[91] Open the front doors

5. Lift the right-hand top cover to the upper position (1).
6. Lift the left-hand top cover to the upper position (2).



[92] Lift the top covers



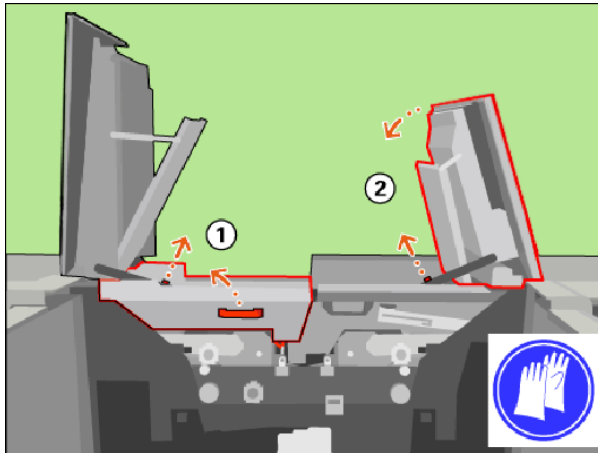
CAUTION
Hot area. Use heat-resistant gloves.



CAUTION
Make sure that the left-hand inner cover is locked in the upper position.

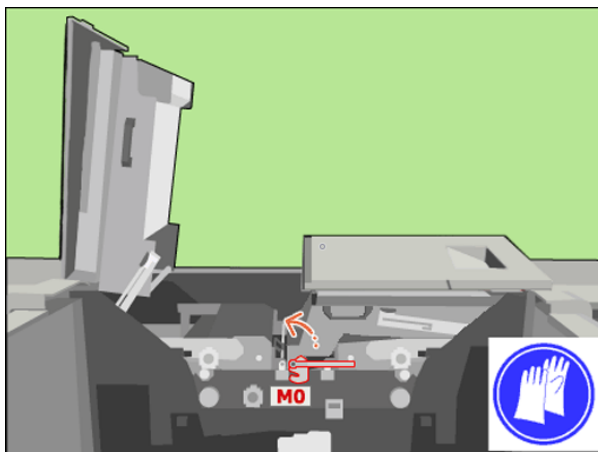
7. Unlock the left-hand upper cover and lift the left-hand inner cover to the upper position (1).

8. Unlock and **lower** the right-hand top cover (2).



[93] Lift the left-hand inner cover

9. Only when the M0 lock is present, turn the M0 lock with the service key counter-clockwise to unlock the inner right-hand cover.



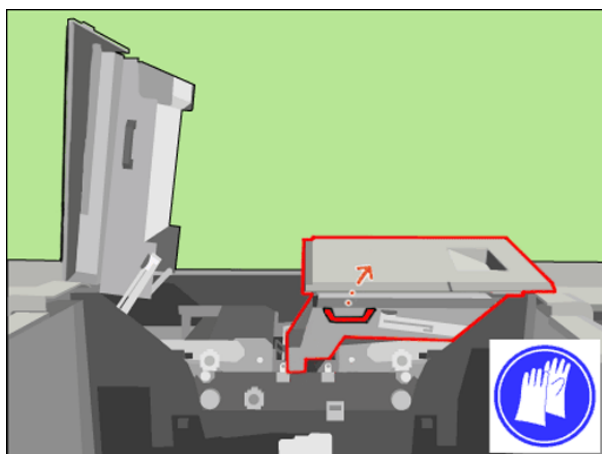
[94] When the M0 lock is present, unlock the inner right-hand cover



CAUTION

Make sure that the right-hand inner cover is locked in the upper position.

10. Lift the right-hand inner cover to the upper position.



[95] Lift the right-hand inner cover

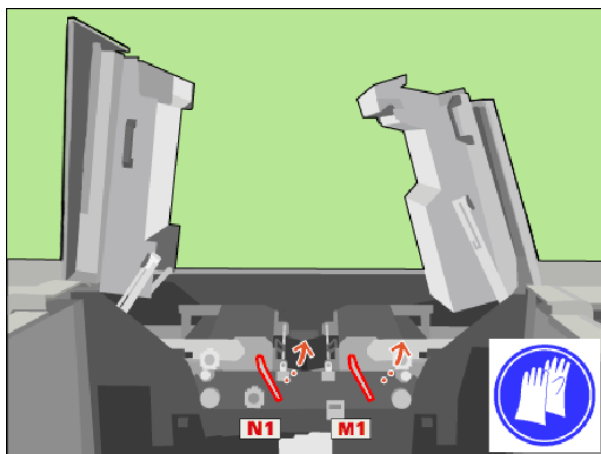
Unlock the clean units

Procedure

**CAUTION**

Hot area. Use heat-resistant gloves.

1. Use the service key to turn N1 counter-clockwise.
2. Use the service key to turn M1 counter-clockwise.



[96] Unlock the clean units

Lift the clean units

Procedure

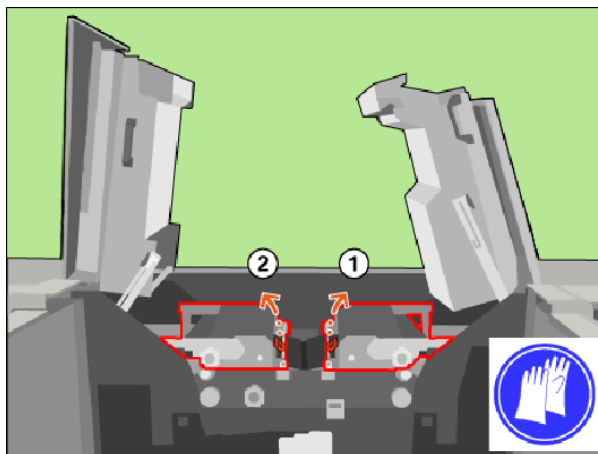


CAUTION
Hot area. Use heat-resistant gloves.



CAUTION
Make sure that both clean units are locked in the upper position.

1. Use the red handle to lift the right-hand clean unit to the upper position (1).
2. Use the red handle to lift the left-hand clean unit to the upper position (2).



[97] Lift the clean units

Lift the TTF units

Procedure

**CAUTION**

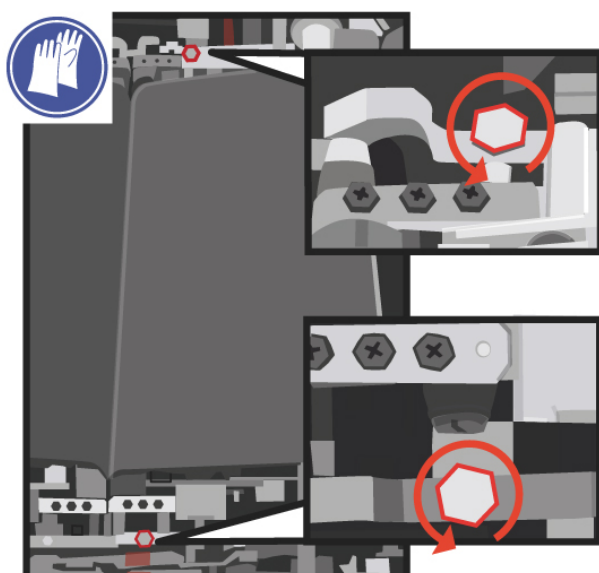
Hot area. Use heat-resistant gloves.

1. When the optional light-weight media module is installed, you have to remove the air guidance unit before you can lift the TTF units.
[Remove the air guidance unit on page 101.](#)

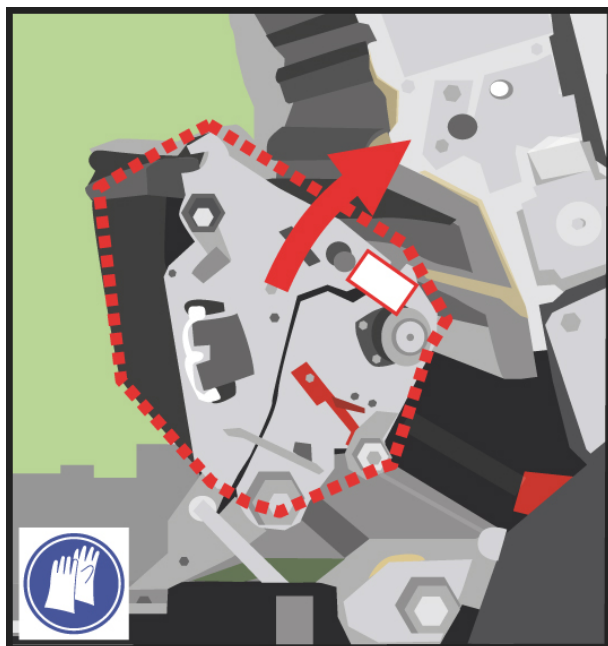
**CAUTION**

Hot area. Use heat-resistant gloves.

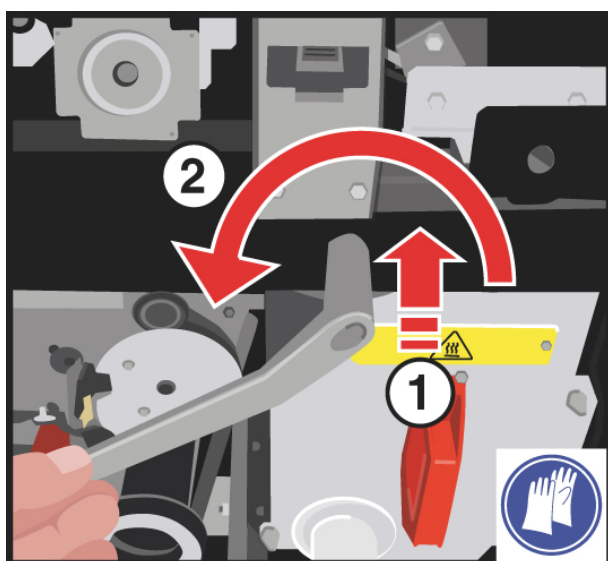
2. Use socket wrench 10 to loosen the two bolts of the right-hand TTF Unit.



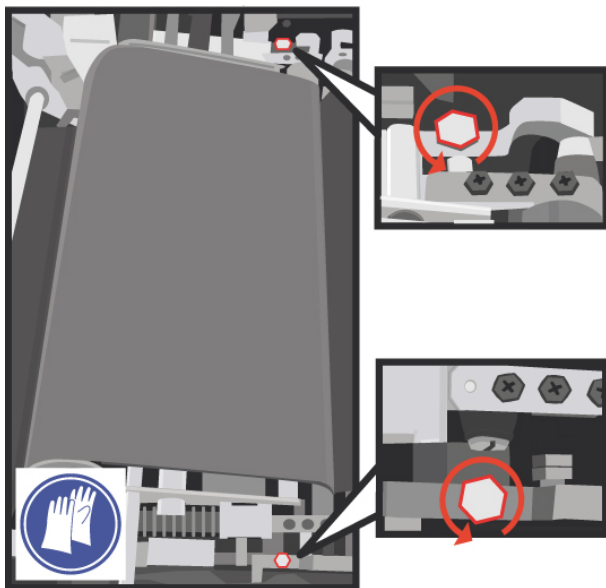
3. Lift the right-hand TTF unit, using the metal bar at the front side.



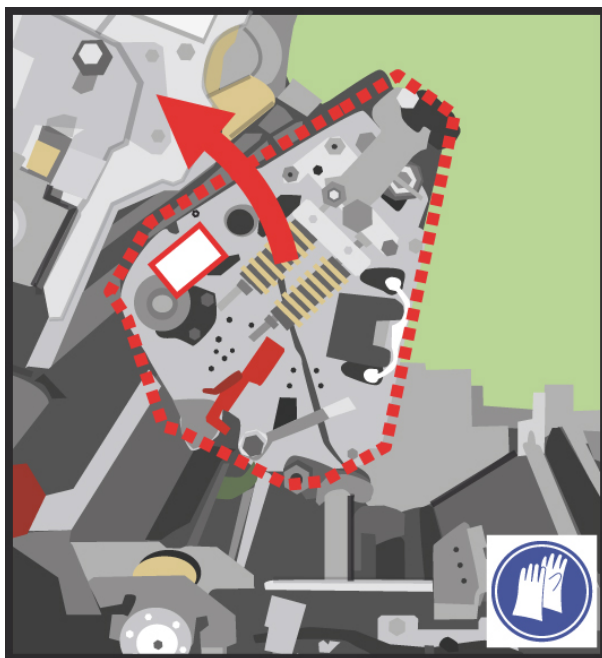
4. Push the service key at the indicated location inside and turn it counter-clockwise.



5. Use socket wrench 10 to loosen the two bolts of the left-hand TTF Unit.



6. Lift the left-hand TTF unit, using the metal bar at the front side.



Prepare for cleaning

Procedure



CAUTION

Hot area. Use heat-resistant gloves.

1. Put a minimum of 4 layers of paper under the left-hand and the right-hand glue cleaning roller to protect the OPC.



Clean the glue cleaning rollers

**CAUTION**

Cleaner fluids can cause irritation. Read the Material Safety Data Sheets of the cleaner fluids before use.

**CAUTION**

Hot area. Use heat-resistant gloves.

**IMPORTANT**

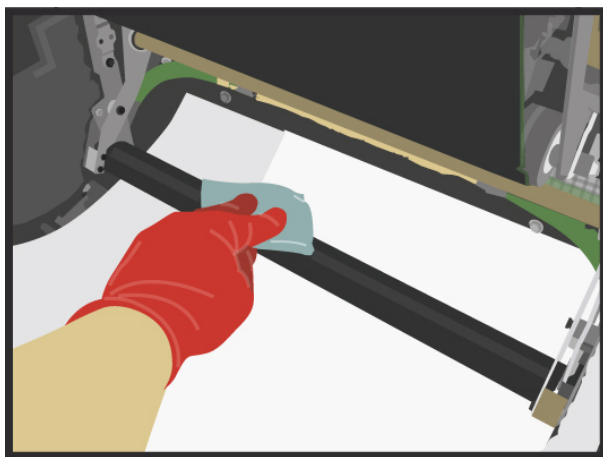
Always clean both glue cleaning rollers.

**IMPORTANT**

For all cleaning actions, apply a small amount of cleaner fluid on an offset pad. Depending on the kind of pollution, you may require different cleaner solutions.

Procedure

1. Clean the glue cleaning rollers with Cleaner K.



2. When the rollers contain white pollution (probably PE-wax), clean the rollers with Cleaner T.
3. If the rollers show extreme pollution,
 - clean the rollers with Cleaner P first and then,
 - clean the rollers with Cleaner T.
4. Clean the rollers again with cleaner K to finish the cleaning procedure.
5. Carefully remove all the protective paper.

Close the TTF units

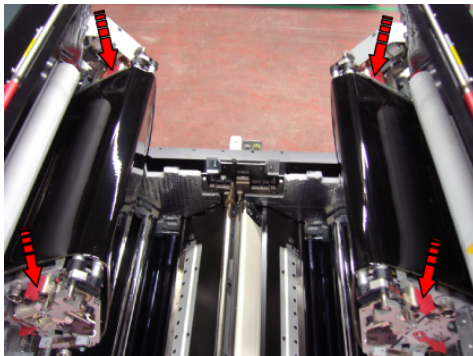
Procedure



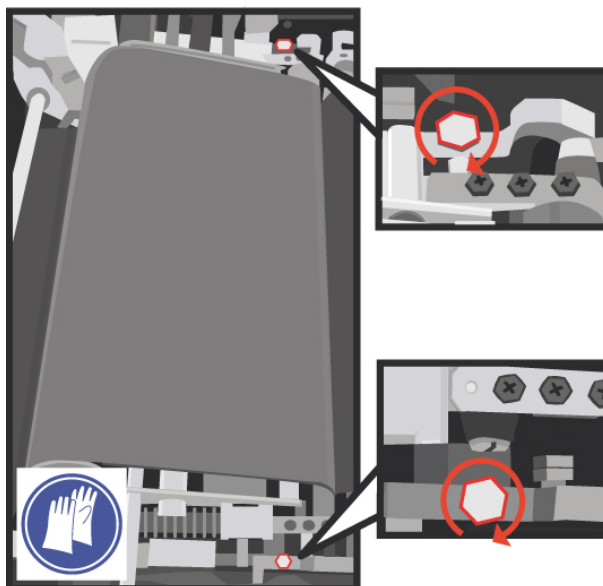
CAUTION

Hot area. Use heat-resistant gloves.

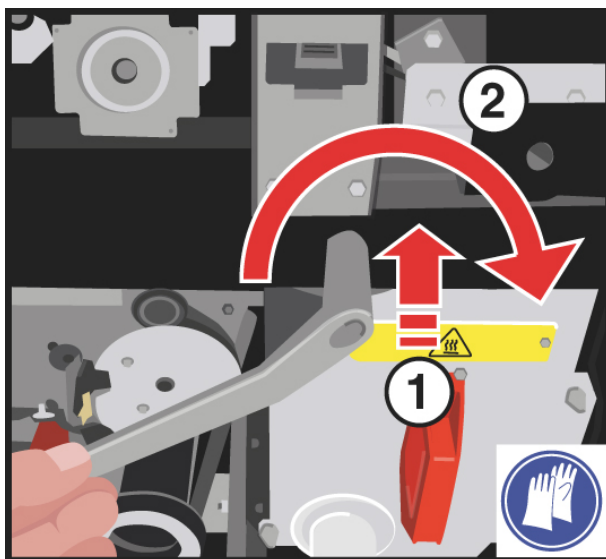
1. Carefully push the left-hand TTF unit down, using the red press plates. When the red press plates are not present, carefully push on the indicated area to close the left-hand TTF unit.



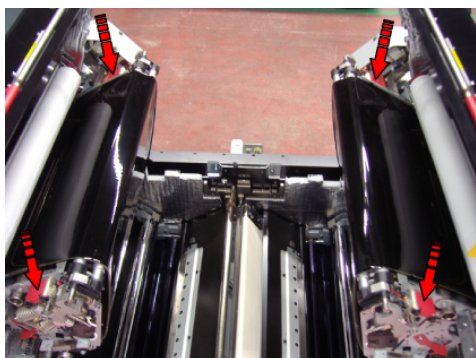
2. Use socket wrench 10 to tighten the two bolts of the left-hand TTF Unit.



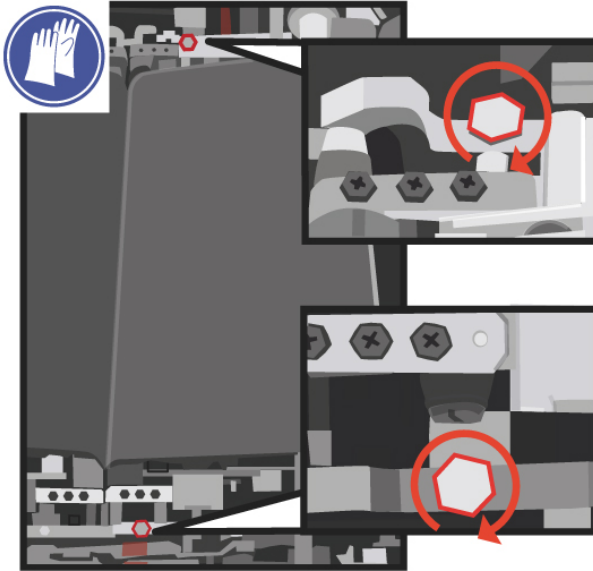
3. Push the service key at the indicated location inside and turn it clockwise to put the tension on the TTF belt.



4. Carefully push the right-hand TTF unit down, using the red press plates. When the red press plates are not present, carefully push on the indicated area to close the right-hand TTF unit.



5. Use socket wrench 10 to tighten the two bolts of the right-hand TTF Unit.



CAUTION

Hot area. Use heat-resistant gloves.

6. When the optional light-weight media module was installed, install the air guidance unit again.
[Install the air guidance unit on page 103.](#)

Lower the clean units

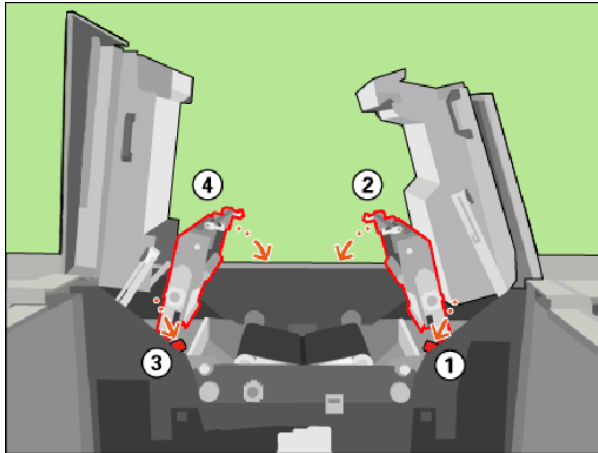
Procedure



IMPORTANT

Make sure that the clean units are in the lowest position.

1. Lift the right-hand clean unit and push the red handle to unlock the locking mechanism (1).
2. Lower the right-hand clean unit into the locked position (2).
3. Lift the left-hand clean unit and push the red handle to unlock the locking mechanism (3).
4. Lower the left-hand clean unit into the locked position (4).

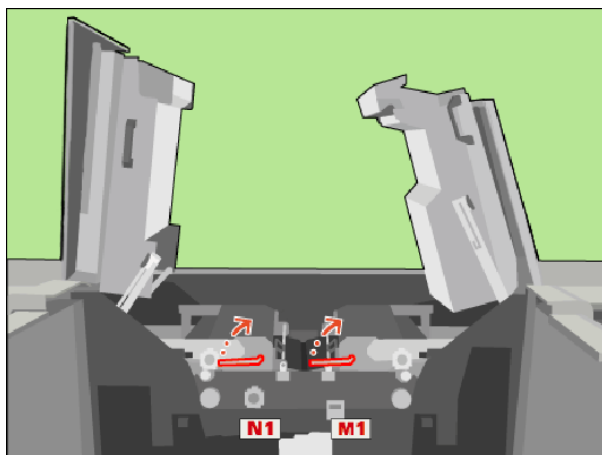


[98] Lower the clean units

Lock the clean units

Procedure

1. Use the service key to turn N1 clockwise.
2. Use the service key to turn M1 clockwise.

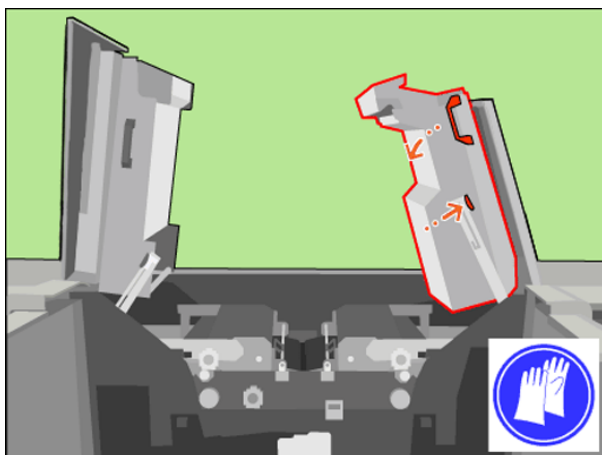


[99] Lock the clean units

Close the covers

Procedure

1. Unlock and lower the right-hand inner cover.



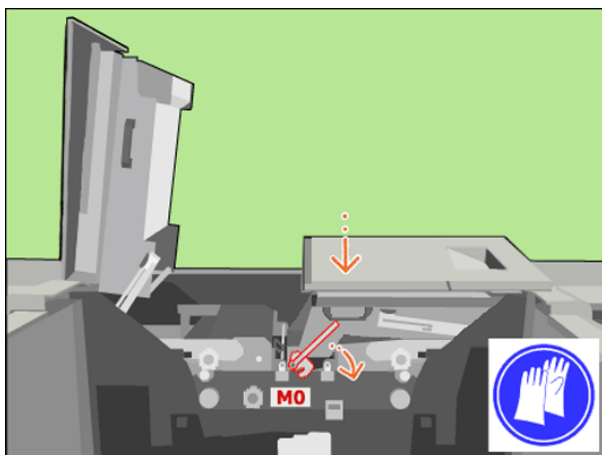
[100] Close the right-hand inner cover

2. Only when the M0 lock is present, push down the inner right-hand cover. Turn the M0 lock with the service key clockwise to lock the inner right-hand cover.



NOTE

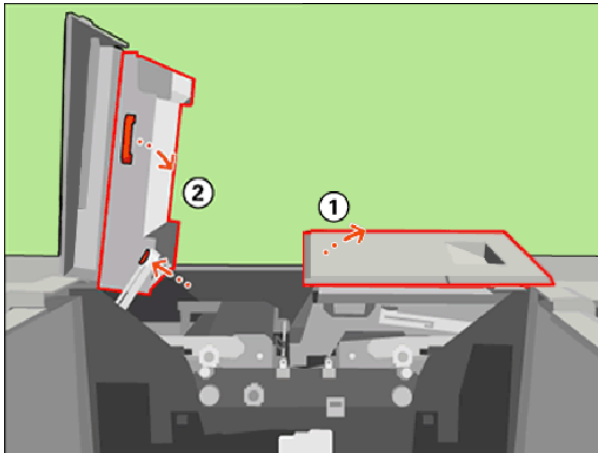
Remove the service key.



[101] When the M0 lock is present, lock the inner right-hand cover

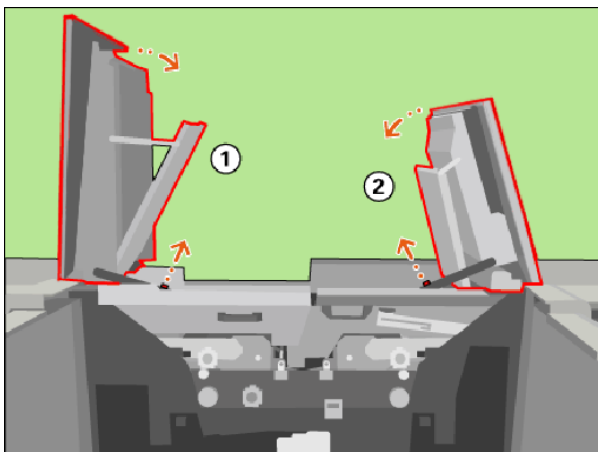
3. Lift the right-hand top cover to the upper position (1).

4. Unlock and lower the left-hand inner cover (2).



[102] Close the left-hand inner cover

5. Close the left-hand top cover (1).
6. Close the right-hand top cover (2).

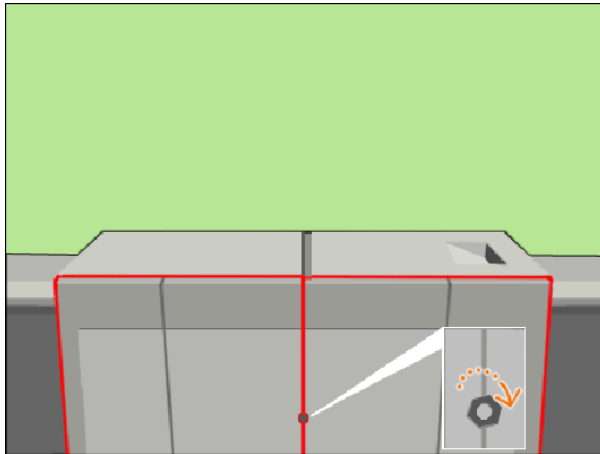


[103] Close the top covers

Finish the maintenance task

Procedure

1. Close the front doors.
2. Use socket wrench 10 to tighten the bolt of the front doors.



[104] Close the front doors

3. Press [Stop] to close the maintenance screen. The machine is turned on.

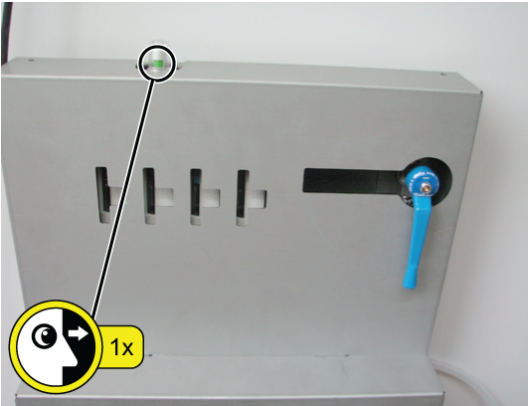
Chapter 4

Optional light-weight media module

Check the filter

Introduction

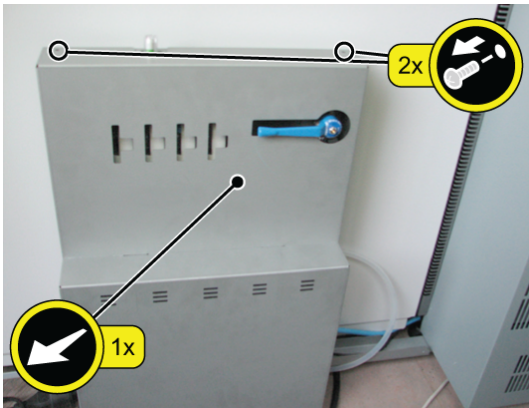
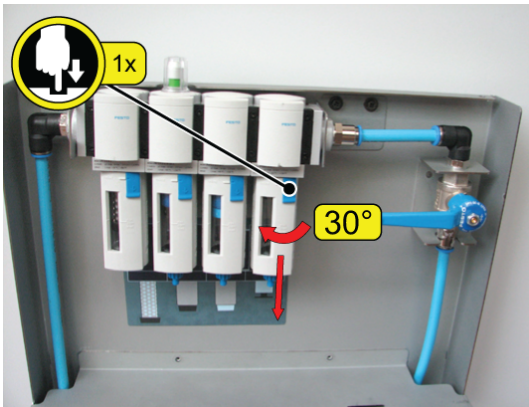
This procedure is only intended for key operators who received the special maintenance training.

	Action	
1	You can only check the filter when the system is printing or when the system indicates that you should check the air filters. This is indicated by the orange maintenance icon. When the system is not printing or the system is not performing the maintenance task described below, the indicator of the filter is green, independently of the status of the filter.	
2	Check the indicator of the filter of the light-weight media module at the rear side of the machine. You can check the indicator when the maintenance icon is orange but you can also check the indicator when the maintenance indicator is not displayed. • Maintenance icon is orange: 1. When the maintenance icon is orange, go to the maintenance task [Check the status of the air filters]. 2. Start the maintenance task. 3. Check the indicator at the rear side of the machine. • When the indicator is green, do not replace the filter. • When the indicator is red, replace all 4 filters. 4. Answer the question about the replacement of the air filters. • Maintenance icon is not displayed: 1. Make sure that the system is printing, otherwise the indicator is green, independently of the status of the filter. 2. Check the indicator at the rear side of the machine. • When the indicator is green, do not replace the filter. • When the indicator is red, replace all 4 filters. See below.	

Replace the filter

Introduction

This procedure is only intended for key operators who received the special maintenance training.

	Action	
1	Move the handle up to shut off the incoming air.	
2	Remove the upper cover of the filter unit. 1. Remove the two screws. 2. Remove the upper cover.	
3	Remove all 4 filters. 1. Push the blue locking down. 2. Rotate the cover clockwise about 30°. You must use force. 3. Pull the cover downwards. 4. Remove the filter.	
4	Install 4 new filters. 1. Install the new filter. 2. Install the cover upwards. 3. Rotate the cover anticlockwise about 30°. You must use force. 4. Push the blue locking up.	
5	Install the upper cover of the filter unit.	

	Action	
6	Move the handle down to switch on the incoming air.	 A photograph of a grey industrial machine, likely a printer or copier, with a blue handle on the right side. A red curved arrow points downwards from the handle, indicating the direction to move it. The machine has several ventilation slots on its front and top.

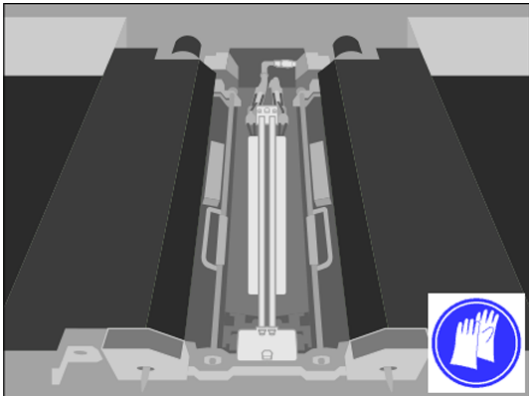
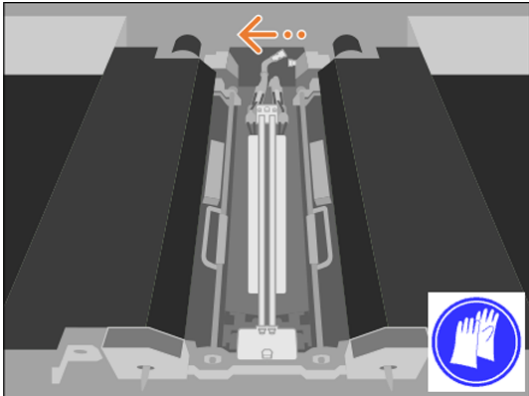
Remove the air guidance unit

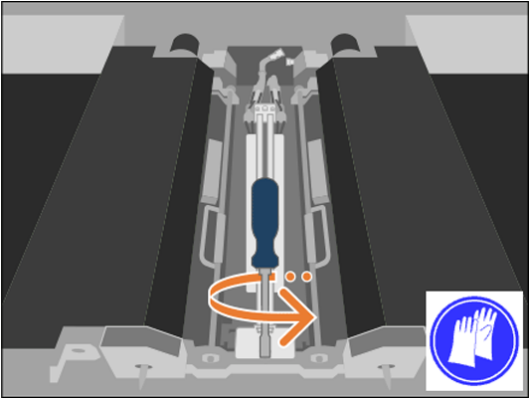
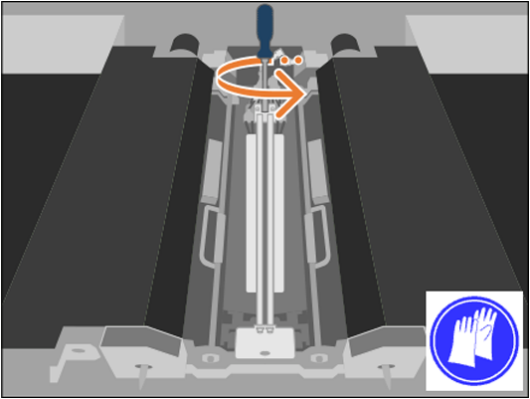
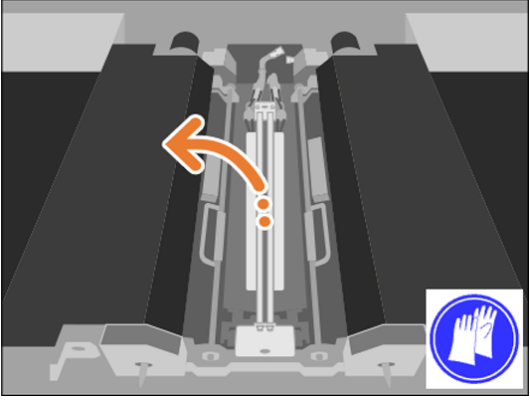
Introduction

This procedure is only intended for key operators who received the special maintenance training.

When to do

Use this procedure to remove the air guidance unit to access the TTF, for example when you need to remove sheets in the TTF.

	Action	
	 CAUTION The TTF area can be hot.	
1	[Disconnect the connector of the air supply hose from the air guidance unit.]	

	Action	
2	[Unscrew the two bolts that attach the unit to the machine.] One bolt at the front side and one bolt at the rear side.	 
3	[Lift the air guidance unit and put it aside on a safe place.]	

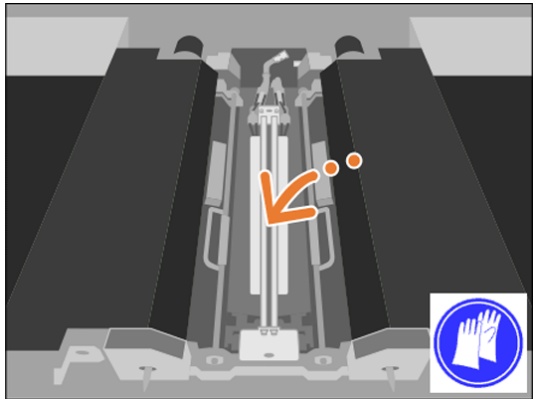
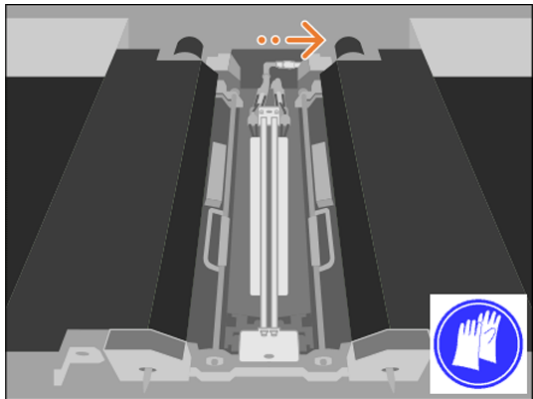
Install the air guidance unit

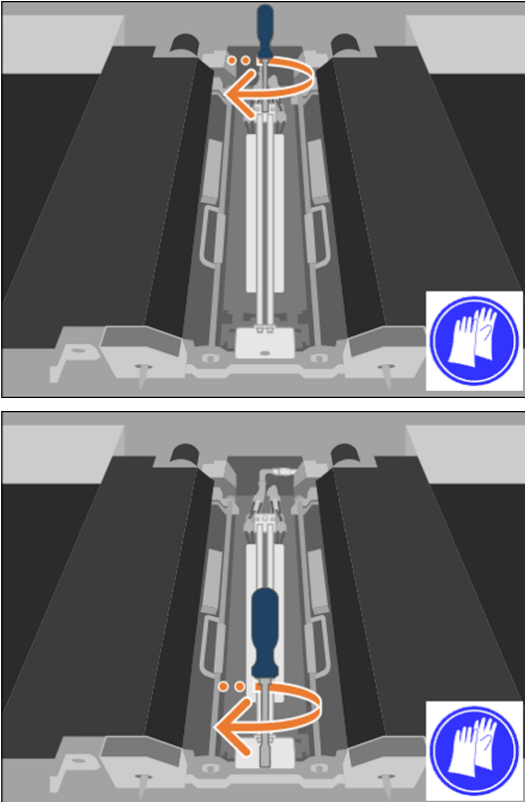
Introduction

This procedure is only intended for key operators who received the special maintenance training.

When to do

After you performed a maintenance action in the TTF area, you must install the air guidance unit again.

Action		
	CAUTION  The TTF area can be hot.	
1	[Take and place back the air guidance unit.]	
2	[Connect the connector of the air supply hose to the air guidance unit.]	

	Action	
3	[Screw the two bolts to attach the air guidance unit to the machine.] One bolt at the rear side and one bolt at the front side.	

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